



### REPORT

2017/01/11/11/15

### COMMITTEE

APPOINTED BY THE

# BOARD OF PUBLIC EDUCATION

CLASSIC CONTRACTOR STATE

### SANITARY CONDITION OF THE SCHOOLS

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First School District of Pennsylvania City of Philadelphia.

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ANALYSES OF THE MR OF SCHOOL ROOMS, RIPORTS OF PHYSICIANS, TABULAR STATEMENTS, AND DETAILS OF
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PHILADELPHIA:

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# BOARD OF PUBLIC EDUCATION

TO INQUIRE INTO THE

## SANITARY CONDITION OF THE SCHOOLS

OF THE

First School District of Pennsylvania, City of Philadelphia.

CONTAINING

ANALYSES OF THE AIR OF SCHOOL ROOMS, REPORTS OF PHY-SICIANS, TABULAR STATEMENTS, AND DETAILS OF THE SANITARY CONDITION, ETC., ETC., OF TEACHERS AND PUPILS,

PHILADELPHIA:

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### REPORT

Philadelphia, July 13, 1875.

To the Board of Public Education,

First School District of Pennsylvania.

GENTLEMEN: The Committee to which was referred the communication of the Social Science Association of Philadelphia, in regard to the hygienic condition of the Public Schools of this city, respectfully report, that it has given the subject matter of the communication the fullest consideration, and used all the appliances at its command, to secure the information desired by the society named.

The work of collecting the facts embraced in the accompanying papers, was not by any means an easy one, as will be demonstrated by a reference to those papers, yet with all its difficulties it was cheerfully undertaken, alike by those who contributed to their preparation, either by presenting the facts, the making the chemical investigations, and the summarizing and reporting upon them.

In their work the Committee received much valuable assistance from Mr. R. Thomson, of the Boys' Central High School, Dr. Pemberton Dudley, Dr. J. Gilbert Young, and other scientific and medical gentlemen, to whom it here makes its acknowledgments, and expresses its thanks for the good services rendered by them.

From Dr. B. L. Ray, who carefully examined all the reports of the scientific gentlemen, the Committee received very important aid, and are under great obligations to him for the very clear, concise and satisfactory summary which he prepared—which summary is herewith presented to the Board.

Whilst many of the reports received are not as full as desired, it is yet a satisfaction that every school in the district (with two exceptions) has been heard from, and the only source of regret with your Committee arises from their inability to secure a thorough medical examination in every section.

The Committee urgently request each Member of the Board to carefully examine the papers presented, that they may become not only acquainted with the facts which are connected with their section, but with those of all the sections, to the end that they may, when the time shall arrive for action by the Board, upon the many subjects treated of in the report, be able to act promptly and effectively in bringing about the much needed improvements in the hygiene of our Public Schools.

An examination of the papers will make it apparent, that in a large number of the schools reform is much needed in the matter of the position of the pupils' desks and the black-boards, as regard the direction from which the light enters the classrooms. In the class-rooms where the positions of the desks are faulty, because of the light falling directly upon the face of the pupil, when sitting at the desk, they should as far as possible have their positions so changed that the light may be received at the side or from behind the pupil, and the black-boards be so arranged as to be in harmony with the light received from such directions. There cannot, the Committee feel free to say, be any excuse, much less any justification for such architectural arrangement of school-houses which may hereafter be built, as will not secure the arrangement of the desks and black-boards to be in such position with the windows of the class-rooms that the reception of the light upon them and the pupils will be either from the side or from behind the pupils when seated at the desks, or when working on the black-board.

As regards the matter of physical exercise, the Committee feel called upon to remark, that while it may not be possible from the peculiar construction of some of the school-houses to have space sufficient and the other necessary conditions to permit of gymnastic exercises being engaged in by the pupils,

with benefit in the class-rooms, yet the importance of physical exercise, as a means, if of nothing more, of withdrawing the brain from its toil, and of thus securing mental relaxation. should not be overlooked, and hence that in some form such exercise should not only be indulged in, but commanded at set periods every day. If from the arrangement of the schoolrooms the exercises cannot be practiced in the school-building. they may, nevertheless, be engaged in outside of the classrooms, in the yards attached to most of the school-houses.-The Committee fear that the law of the Board which requires that the pupils shall have a recess each morning of thirty minutes, is not universally complied with by the teachers, and that in some instances it is advised the morning session is continued without interruption for two and a-half hours, when the pupils are dismissed, the thirty minutes being added to the period intervening between the closing of the morning and the opening of the afternoon sessions, thus making the morning session from 9 o'clock to 11.30 o'clock, instead of, as ordered by the Board, from 9 A. M. to 12 M., with a recess of one-half hour during that period. Whilst this arrangement, on the part of those teachers who direct it, virtually gives to the pupils the full time for tuition directed by the Board to be given to them, the sanitary and hygienic purposes of the morning recess, namely, the taking from the brain the tension to which it has been for an hour and a-half submitted, and the exposing of the children to the healthful influence of a better light and purer air than that of the school-room, and the mental and physical invigoration which results from that abandon and giving up to free and unrestrained natural and joyous exercise of the physical and mental systems, as may be seen in any school-yard during recess, is cruelly denied the children. In every instance where the recess required by the Board is withheld from the children, there is a gross wrong done to them, the effects of which your Committee fear, in too many instances, present themselves in impaired health, enfeebled brain power, and defective nerve force—the outcroppings of which are too often seen in that sad condition of early womanhood and early manhood, as qualified by the terms—"broken down health," and "shattered constitutions." The wrong referred to must not be tolerated. It must be arrested, and the Board should see to it, that by the due infliction of proper penalties upon the teachers who deny to the pupils their rights in the matter of the healthful benefits incident to the thirty minutes morning recess, shall be made to realize the importance to the pupils, of the mental and physical relaxation and invigoration which result from their withdrawal of thirty minutes from their labors in the school-room, and their devotion of the recess to exercise and pastime in the open air.

In reference to the school furniture, the facts collected justify the conclusion that the pupil's desks, which have for the past few years been furnished, are, as regards their height for the different grades of schools, their form, and the construction and shape of the seats, such as largely meet the requirements

of the pupils for comfort and health.

The subject of the ventilation and warming of the schoolhouses largely engaged the attention of the Committee. Upon this branch of their investigation many very interesting and important facts have been collected, which must, if properly regarded, aid very positively in securing for the class-rooms their better heating and pure effective ventilation. mittee are not ignorant of the fact, that the matter of heating and ventilating school-rooms, and indeed all rooms in which large numbers of persons remain for hours, is fraught with many difficulties, and that able minds have been, as they are now, engaged in endeavoring to solve the problem, of how to successfully warm and ventilate assembly rooms. In view of these difficulties, and with the belief that the Committee presents to the Board something practical in reference to the improvement of the ventilation of the school-rooms, the Committee invite special attention to the suggestions of one of the Committee, Dr. Nebinger, as embodied in his report of the hygienic condition of the class-rooms of the Second Section. The Committee not only invite the attention to these suggestions, but recommend that the suggestions be put into immediate practical operation.

A source of atmospheric contamination very generally complained of in the reports, is, the foul and disgusting emanation from privies connected with some of the school-houses. This source of atmospheric contamination is entirely within the power of the means of control, and should at the earliest possible period be remedied by the emptying of the wells, the free use of disinfectants, and the connecting of the privies by means of properly constructed wooden or terra-cotta ventilating tubes with the smoke flues of the school-houses, a means at once efficient, simple, and easy of application.

A very serious complaint comes from some of the sections in regard to the inadequacy of the heating apparatus. The Committee suggest that in every instance complained of, that it be duly inquired into, and if found well based, that the needful remedy shall be applied.

Advanced sheets of the tabulated matter of this report, and the reports of the scientific gentlemen upon the atmosphere and ventilation of the school-rooms, were furnished to Dr. D. F. Lincoln, of Boston, who made use of them in his very interesting report presented to the American Social Science Association at its meeting held at Detroit, Michigan, May 11, 1875. In referring to these reports Dr. Lincoln said, in substance, that the facts embodied in them were the first of the kind that had been collected and tabulated by any Educa Thus it will be seen that this Board has been, to tional Board. a certain extent, a Pioneer in a specialty of hygiene, as connected with Public Schools. Since the presentation to the American Social Science Association, of the matter contained in the accompanying tabulated reports, a series of questions similar to those of our reports have been prepared by the school authorities of St. Louis, and circulated among the teachers of the schools of that City, for the purpose of obtaining information in regard to the hygienic condition of its Public Schools.

The abstracts of the several reports received by your Committee do not show as satisfactory a condition of our school buildings as could be wished, and yet we feel that the very plain and pointed statements of defects as given by teachers and physicians, will induce our respective committees and the various Sectional Boards to take immediate steps to remove the difficulties complained of, and to this end your Committee would respectfully ask that this report, with the accompanying documents, be printed in pamphlet form for general distribution.

The Board will find herewith copies of the blanks prepared by your Committee and abstract of the answers received, classified under the heading of "Grammar," "Consolidated," "Secondary," and "Primary" Schools.

We have the honor to be,

Very respectfully, yours,

LOUIS WAGNER, Ch'n,
D. STEINMETZ,
A. NEBINGER.

# DETERMINATIONS OF CARBONIC ACID AND OF WATER IN AIR,

(Schools in Second Section,)

By E. Thomson, High School Laboratory.

The following analyses were undertaken with a view to finding the amount of carbonic acid which may be expected to exist in the atmosphere of an ordinary school-room, and to discover, if possible, conditions favorable and unfavorable to good ventilation.

In the first place, however, it becomes necessary to decide what proportions of constituents may be regarded as pure or normal air, such as may be taken as a standard of comparison. Many investigators and prominent among them, Dr. R. Angus Smith, recognize the following proportions of gases as expressing very nearly the composition of pure or normal air, watery vapor excluded.

			$\mathbf{Per}$	cent. by measure
Oxygen, -	-	-	-	20.96
Nitrogen, -	-	- "	-	79.00
Carbonic Acid,	-	- 1	-	.03 to .04

The amount of carbonic acid varies slightly above and below the amount given.

The two following analyses of external air, agree, in general, with the proportions given. The amount of water is also given.

The observations are calculated for a standard of 60° F.

In all the analyses here given, the volume of carbonic acid found, is compared with 10,000 volumes of air. The water is given in parts by weight compared with 10,000 parts by weight of air.

### No. 1. Analysis of Pure External Air.

The sample was taken February 27, at a temperature below the freezing point. There was high wind at the time, and the day was cloudy.

		Volumes i	Parts by Weight.
Carbonic Acid	,	C- 2.88	4.08 in 10,000
			37.68 in 10,000

### No. 2. Analysis of Pure External Air.

This sample was taken March 13th; temperature 55° F.; weather, rainy and damp, with very little wind:

			,	Volumes i	n -
				10,000	
Carbonic Acid,		-		3.205	4.54 in 10,000
Water,	-	-	-		75.14 in 10,000

The results obtained by Dr. R. A. Smith, show that, in general, the more wind, the less the carbonic acid, and that, during a calm, it rises in quantity. This fact is, doubtless, due to the wind preventing the formation of local atmospheres containing higher proportions of carbonic acid.

His results also show that in cities, the amount is greater than in the rural districts, unless very high winds prevail.

Besides the gases already referred to, a trace of ammonia and a small proportion of carbides of hydrogen, are generally present in air.

Pure air is contaminated by the operation of many causes. The sources of impurity may be briefly tabulated as follows:

### Respiration, introducing

Carbonic acid, water, with organic impurities, ammonia and similar substances.

### Combustion, as of wood, gas, or coal:

Carbonic acid, water, hydrocarbon vapors, sulphurous acid, acetic acid, soot, &c.

Fermentation, animal and vegetable decomposition:

Carbonic acid, ammonia, sulphide of hydrogen-carbides of hydrogen, &c., e.g. sewer gases.

General wear and tear, and miscellaneous sources of impurity:

Animal excreta, volatile oils, &c., fibres from clothing, emanations during disease, organic germs, &c.

In school-rooms, all of these sources exist to a greater or less extent. The impurities thrown off in respiration, are, doubtless, in many cases, added to by leaky flues in heaters and stoves, gases from sewers, and the like, and impurity arising from neglect of cleanliness of the pupils.

In all the sources of contamination mentioned, carbonic acid is produced, and its quantity may, with few exceptions, be taken as an index of the presence or absence of other and more harmful substances.

Pure carbonic acid, mixed with air, exerts but little truly poisonous action, but when accompanied, as it usually is, by quantities of organic putrescible substances, for continued respiration, it is most injurious.

. The following analyses give the proportions of carbonic acid and water as found in samples of air taken from schools in the Second Section. In all cases the schools were in full session.

### No. 3. Wharton School-House.

Boys' Secondary—Second Division; about 30 pupils present; 30 pupils—one window open about 2 feet; weather, damp; outside tem-of air to each perature a few degrees above the freezing point.

The results of analysis are:

Volumes in 10,000.

Carbonic acid, 11.68.

Water, 76.58 parts, by weight, in 10,000.

The carbonic acid is about three times that of normal air. The water found agrees with the damp condition of the air.

### No. 4. WHARTON SCHOOL-HOUSE.

30 pupils— 160 cubic feet pupil.

Boys' Primary—First Division; about 30 pupils; one window of air to each open 8 or 10 inches; large transom over the door, wide open; fair weather, temperature outside 47°.

Volumes in 10,000.

Carbonic acid, 5.93.

70.09 parts, by weight, in 10,000. Water,

A strong draft of cold air from the transom was noticed while taking the sample used in this analysis, which fact fully accounts for the low proportion of carbonic acid found.

### No. 5. Wharton School-House.

41 pupils-152 cubic feet pupil.

Girls' Secondary—Fourth Division; no windows open; the of air to each transom partly so; weather, very bad, high wind and shower of sleet.

Volumes in 10,000.

Carbonic acid, 15.33.

Water

60.61 parts, by weight, in 10,000.

The amount of carbonic acid is considerable and arose from the necessity for closing the windows on account of the storm.

### No. 6. Geo. W. Nebinger School-House.

For each of sionscrowded rooms, for a special pur-pose, there were but 66 cubic feet of air. Atordinary times there are about 140 cubic feet of air

Two rooms were being used connectedly, with over 190 pupils the 190 pupils of the boys' primary, two windows open each about 10 inches, into two class two transoms partly open; weather, bright and clear.

Volumes in 10,000.

Carbonic acid, 21.34.

57.73 parts, by weight, in 10,000. Water,

For the purpose of receiving instruction in music, four divisfor each putions were crowded into the space ordinarily occupied by two. The proportion of carbonic acid and organic impurities is therefore high.

> It is proper to state that such crowded condition was for a half hour only.

### No. 7. Geo. W. Nebinger School-House.

Girls' Grammar—Fourth Division; 40 pupils; two windows 40 pupils—158 cubic feet down, 4 inches each; weather, dull and cloudy; inside temper- of air to each ature about 72°.

Volumes in 10,000.

Carbonic acid, 16.26.

65.65 parts, by weight, in 10,000. Water,

In this instance the amount of carbonic acid might have been less had the windows been opened to a greater extent; at the same time, the temperature being high would not have been inconveniently reduced by so doing.

### No. 8. GEO. W. NEBINGER SCHOOL-HOUSE.

Boys' Grammar—First Division; 30 pupils; one window 41 pupils—155 cubic feet open to a small extent; weather very fair; inside temperature of air to each 66°.

Volumes in 10,000.

Carbonic acid, 12.68.

44.17 parts, by weight, in 10,000. Water,

The amount of carbonic acid is moderate.

### No. 9. Washington School-House.

Boys' Secondary—Fourth Division; 54 pupils; one window 54 pupils—161 cubic feet partly open: weather comparatively warm and fair. of air to each pupil.

Volumes in 10,000.

Carbonic acid, 16.77.

40.21 parts, by weight, in 10,000. Water,

### No. 10. Washington School-House.

Girls' Secondary—Fourth Division; 38 pupils; one window 38 pupils—210 cubic feet fully opened; weather very fair.

of air to each pupil.

Volumes in 10,000.

Carbonic acid, 8.65.

45.61 parts, by weight, in 10,000. Water,

The low amount of carbonic acid is traceable to the ventilation afforded by the open window.

### No. 11. Washington School-House.

58 pupils—Boys' Primary—4th Division; 58 pupils; three windows of air to each open 1½ feet; weather bright and clear.

Volumes in 10,000.

Carbonic acid, 10.16.

Water, 40.57 parts, by weight, in 10,000.

In this case, again, the proportion is low, and is evidently due to the number of windows open, thus affording rapid change of air.

The following analysis is of air taken from one of the rooms of the High School building when about 40 pupils were present.

### No. 12. From High School.

One window wide open; weather extremely damp and rainy.

Volumes in 10,000.

Carbonic acid, 12.70.

Water, 103.12 parts, by weight, in 10,000.

The proportion of water is over one per cent., and shows at once the very moist condition of the atmosphere.

For purposes of comparison the breath, as exhaled from the lungs during respiration, was analysed, and found to contain—

Volumes in 10,000.

Carbonic acid, 378.48.

Water, 265.80 parts, by weight, in 10,000.

In other words the proportions are by weight, a little over 5 per cent. of carbonic acid and  $2\frac{1}{2}$  per cent. water.

The average proportion of carbonic acid from the ten analyses of air from school-rooms is 13.13 volumes in 10,000 of air, or about four times that found in normal or pure air.

There is no standard of purity which distinguishes good from bad air, since the one condition passes insensibly into the other, and a sample of air from confined situations is more or less pure or impure by comparison. It is safe to conclude, however, that if from 10 to 15 measures of carbonic acid exist in 10,000 of air, the latter cannot be regarded as of good quality, and must be unwholesome, but there can be no question that when the amount is 20 or more that positive injury must ensue to those remaining in such an atmosphere. Too much importance cannot be attached to the fact that although carbonic acid, pure and mixed with air, is comparatively harmless, yet, as in school-rooms and the like, it is always associated with the noxious products of organic changes, and that a large amount of these latter is almost always concomitant in the presence of a like amount of carbonic acid.

The foregoing analyses being made under varying conditions of temperature, wind, and moisture, afford no criterion as to the relative ventilation of the schools from which the samples were taken.

For example, the weather was much milder and more favorable when the samples used in Analyses 10 and 11 were obtained than was the case with several of the others. In some the temperature and state of weather was such as to preclude the use of open windows for ventilation.

From an attentive consideration of the conditions in each case, the following inferences are, perhaps, justifiable.

1. Under similar conditions the amount of carbonic acid and organic impurity will be greater in proportion to the age and size of the pupils.

Hence in the Primary Schools the purity, at least so far as carbonic acid is concerned, may exceed that of Secondary and Grammar Schools.

2. That undue crowding, especially in bad states of weather, as excessive cold, may, by the increase of impurities, produce conditions that are alike prejudicial to both teacher and pupil. In Analyses 6 and 9 the inference is clearly exemplified.

3. No case was found in which the most moderate ventilation could have been secured without the use of open windows. Analyses Nos. 4, 10, and 11, which show the least amounts of carbonic acid, apply to cases in which open windows were doing the work of ventilation.

The amount of water in the air varies, of course, to a very considerable degree, but it is seldom less than one-fifth per cent., and never rises much above three per cent.

E. THOMSON.

# SUPPLEMENTARY TABLE. EXAMINATION OF AIR BY CHEMIST.

# SCHOOLS IN SECOND SECTION.

	<b>W</b> ЕАТПЕВ О	WEATHER OUTSIDE AS TO	PILS.	RIA	rage.	li		
NAMES OF SCHOOLS.	анотлянчияТ	Dampuess.	ич во ваямих	"38" Curic vert ov Per Pupil.	"3b" C. O <sub>2</sub> , Per Cenne (By volume	WATER IN THE OF ROOM. PARTS BY WEIG	WINDOWS OPEN	REMARKS.
George M. Wharton Boys' Secondary, 2d Division	A little above freezing.	Damp	30	155	.1168	76.58	1, 24 inches.	
" " Primary, 1st Division	470	Fair	80	160	.0593	10.09	I, 9 " Earge.	e. Strong draft from transom.
" Girls' Secondary, 4th Division	About freezing	Damp	41	152	.1533	19.09	Closed Part open	n   Sleet and wind, compelled to
George W. Nebinger		Clear & bright	*190	99*	<b>*</b> .2134	57.73	2, 10 " 2, " "	
" Girls' Grammar, 4th Division		Cloudy	40	158	.1626	65.65	2, 4 "	(Twice the ordinary dens.ty.
" Boys' Grammar, 1st Division		Fair	30	155	.1268	44.17	1, slightly	
Washington Boys' Secondary, 4th Division	Warm	Fair	24	161	.1677	40.21	1, partly	
" Girls' Secondary, 4th Division		Fair	38	210	.0865	45.61	1, w.de	
" Boys' Primary, 4th Division		Clear & bright	58	140	.1016	40.57	3, 18 inches	-
Boys' High School		Very Damp	40		.1270	103.12	1, w.de	
			Averages	*150	.1315	60.43		*Exceptional circumstances, see
February 27, Out door air No. 1	Below freezing	Cloudy & windy			.0288	37.68		
March 13, Out door air No. 2	550	Damp & calm			.03205	75.14		
air just exhaled from lungs, was found to contain					3.7848	{ 265.80, or 2.658 p. et.		

E. THOMSON.

### SECOND SECTION.

To the Sanitary Committee of the Board of Public Education:

Gentlemen:—Desiring to have the atmosphere of a number of the class-rooms of the school-houses of the Second School Section analyzed with accuracy, to determine the percentage of carbonic acid in the air of each, we invited Mr. E. Thomson, A. B., Assistant to the Professor of Chemistry of the Boys' High School, to take charge of the investigation. Mr. Thomson, with great kindness and readiness, consented. He gave to the work of the analysis a large amount of time and labor, and prepared a report of his investigations which is herewith presented. The report is clear, comprehensive, and abounds in suggestive facts which cannot fail to interest those who give attention to the study of the laws of health.

It may be well here to remark that inasmuch as the class-rooms whose atmosphere Mr. Thomson examined, may be regarded as representing the average class-rooms of the school-houses of the First School District, that the results of the analysis of the atmosphere of these rooms therefore express about the condition of the atmosphere of all the class-rooms in the public school-houses of Philadelphia.

If, in the report of Mr. Thomson, one fact more than another is forcibly presented, it is that the means, apart from open windows, which are applied to ventilating our school-houses are inefficient.

In regard to the three rooms of the Wharton School-house, the air of which was analyzed, we have to record that although there are ventilating shafts and ventilators, so called, by which it has been supposed the ventilation of the rooms was secured, yet the only means as experience and science have demonstrated by which the ventilation of those apartments can be effected is by open windows.

The other two school buildings, in which the atmosphere of three rooms of each was examined, and the results of the analyses reported by Mr. Thomson, are buildings which are known as new school-houses, one was built in 1868, the other in 1872, and are as complete and as well constructed as regards their ventilating appliances as any of the public school-houses of the city, yet Mr. Thomson's report exhibits that the ventilation of the rooms of these buildings is but little, if any, more satisfactory than the ventilation of the class-rooms of the Wharton building, where the powers of the ventilating apparatus may be expressed by a cipher.

Too much importance cannot be attached to the perfect ventilation of the school-rooms. In Philadelphia, during ten months of the year, about four and a half hours of each school day are spent in the school-rooms, by 90,000 children, ranging from six to seventeen years, and about 2,000 teachers. Who can possibly estimate to what extent the laws of health are violated by compelling these 92,000 persons to breathe day in and day out an atmosphere surcharged to the extent of five, six, or seven times the sum of carbonic acid that normal air contains, and then superadded to this a sum of organic impurities which may be expressed by the same numbers as indicate the excess of carbonic acid? Who can, in numbers, express the degree of violence done to health, the sum of human suffering engendered, and to what extent life may be shortened by the respiration of the unnecessarily impure atmosphere of school-rooms?

It must be borne in mind that an excess of carbonic acid is not the only pernicious matter which contaminates the air of school-rooms as a result of respiration, and of exhalation from the surface of the body, etc. There is organic or putrescible matter given off from the lungs at every respiration, which matter is held in solution in the watery vapor expired. This organic putrescible matter the best authorities declare is more injurious to health when inspired, than is the ordinary excess of carbonic acid which is present in defectively ventilated assembly rooms. Whilst there is not any means by which the

organic putrescent matter can be quantitatively determined, yet it can, for all useful purposes, be approximately fixed. Thus the sum of putrescible matter in any school-room, for example, is expressed by the same figures as indicate the sum of the excess of carbonic acid. In other words, if the carbonic acid is five, six, or seven times in excess of the sum of that gas in normal air, then is the putrescible matter five, six, or seven times in excess of such matter in ordinary air. The watery vapor expired from the lungs, and which holds in solution the putrescible organic matter, is not under ordinary circumstances visible. is rendered visible, however, by condensation, as is often seen on the glass of the windows and not unfrequently observed flowing down them in currents, where a large number of persons are assembled in a room when the external temperature is below-the freezing point. Nearly the entire amount of the condensed vapor which is seen under such circumstances was once in the bodies, and with all its foul putrefactive matter was cast off or exhaled by those in the room, and in its aeriform condition, by being breathed or inspired, enters again the circulation of every one of the auditory, and much or little, corrupts and poisons their bodies. From these observations it will at once be seen, that there is a double necessity for efficient ventilating apparatus in all school-rooms and other rooms where the atmosphere is subjected to contamination from the presence of a large number of persons.

While we are disposed to regard with favor, the plan which has been applied of late years to the ventilation of our school-rooms, as embodying the practical and useful, yet we are confident, that it is in its operations, because of its defective application and details, inefficient. The imperfections referred to, in our estimation, although very positive, we think may be readily avoided in the application of the plan to the school-houses which may be hereafter constructed—and be largely remedied in many of our recently erected school-buildings.

The plan of ventilation now in vogue in our so called modern or new school-houses, is by openings into a shaft, or flue,

through which an iron smoke or gas-pipe connected with the heater passes. This apparatus is defective in our opinion, first in the small size of the shaft, second in the size of the ventilating openings into the shaft, third in the localities of the openings. The shaft has not sufficient capacity to carry off with the required rapidity the contaminated air, even though the openings into it were of sufficient size, and in the best places to permit the air to pass with the required freedom from the room into the shaft, and through it into the external air. ventilating registers are generally about 14 inches by 20 inches. The face of the register has many small openings in it, but it is however mainly made up of scroll or fret work, which embraces about two-thirds of the entire face, so that a ventilating register 14 by 20 inches gives an opening into the shaft, practically and absolutely, of about 5 by 7 inches only, through which small openings we unreasonably expect to have escape from a room containing from 40 to 50 children, the expired air, with sufficient rapidity to keep the atmosphere of the room at or near the normal condition. The mere presentation of these statements is of itself, we feel, sufficient to make clearly manifest the insufficiency of our plan of ventilation, yet, as we have already in substance remarked, we incline to the opinion that the fault is not in the principles involved in the plan, but in the details and the imperfections of their application. We would suggest that hereafter in all the school-houses which may be built under the supervision of the Board of Education, in which the plan of ventilation on which we have been commenting may be introduced, that the ventilating shafts shall be increased to thrice the capacity of those now in operation; that the openings into the shaft be not less absolutely than 16 inches by 24 inches, and that they be covered with iron doors which can be easily opened and closed partially or completely by teachers and janitors, and that these openings be near the ceilings. We have in our mind a form of frame and door with an arm, to which two cords could be attached, one for opening, the other for closing it, which would be far less costly than the

ventilating registers now used, and which could be easily worked, and would present the smallest liability to get out of order.

If we would secure complete ventilation of the school-room, we must not contemplate its cost in the consumption of fuel. To warm properly and to ventilate efficiently our school-rooms, there are required large and well constructed heaters, whose hotair chambers must communicate directly with the air outside of the school-house, through cold air trunks, and the ventilating shafts must be of large capacity, with openings into them of such dimensions as will permit the air to rapidly flow out of the room into the shaft and through it into the external air.

The factors of effective ventilation of our school-rooms in cold weather, are the introduction of a full supply of hot pure air, and the rapid escape without the sensible production of air currents, of the respired air. Until the heating and ventilating appliances of our school-rooms embrace these factors the class-rooms will present conditions prejudicial to health, vigor, and long life.

A. NEBINGER, M. D.

### FOURTEENTH SECTION.

### No. 684 North Twelfth Street.

Philadelphia, March 15, 1875.

To the Board of Directors of the Public Schools, Fourteenth Section.

Gentlemen:—Accompanying this you will receive duplicate reports of the results of the sanitary examination of the public school-buildings of your section. The time at my disposal, since my appointment about two weeks ago, was too limited to allow of such a general and thorough investigation, as I should have been glad to make; yet the results obtained are well worthy of your careful consideration. I here present certain facts in connection with our schools, which could not well be presented in the printed blanks.

The examinations for carbonic acid were made during the comparatively warm days of March 10th, 11th, 12th, and 15th. The windows of the rooms examined were more or less open in every case; yet a considerable quantity of carbonic acid (C. O<sub>2</sub>) was detected in all of them. Wherever living beings are congregated there must, of course, be carbonic acid, but the fact that but one tenth per cent. or even less was found in one or two of the rooms proves that it is possible to maintain an equal degree of purity in all the others. On the other hand, the presence of .3 to .5 per cent. of carbonic acid in the school-rooms at Twelfth and Ely's avenue, with half-a-dozen of the windows lowered one foot from the top, is strikingly significant of what might be expected in colder weather, with the windows closed.

All the school-rooms in the ward appear to be sufficiently heated. An exception, however, is noted at the Monroe School. In this building, if the heat from the "side heaters" is turned on at the two upper floors the lower floor gets none at all. This could perhaps be easily remedied by means of dampers, so arranged as to prevent a portion of the warm air from rising to the upper rooms. As regards moisture, some of the teachers

complain of dryness of the throat and weakness of voice during school hours. The absence of these symptoms during the warmer weather makes it probable that they are due not alone to the constant effort of speaking, but also in some degree to a deficiency of moisture in the air of the school-rooms.

The lighting seems to be sufficient in most instances, but would be still better, were the windows extended nearer to the ceilings. Such an arrangement would also add greatly to the comfort and healthfulness of the rooms during the hot weather. It is to be hoped that in school-buildings yet to be erected, this point may not be lost sight of. The direction of the light in relation to the position of the desks is faulty in very many cases; and it is difficult to suggest a remedy, inasmuch as any change in the position of the desks necessitates a change also in the location of the black-boards, maps, charts, &c., bringing them not unfrequently against the glass partitions, which would, of course, be objectionable.

The air space allowed each scholar is in some cases hardly sufficient, particularly in the primary schools, where the desks, being smaller, are crowded into a narrower space than in the higher schools. And while speaking of the desks, it may be well to state that in all the primary schools we find a few scholars of larger growth, whom the *primary* desks are too small and contracted to allow them to sit with comfort. Could not a few desks of a larger pattern be introduced into the primary schools, for the special use of the older pupils?

The outlets or ventilators are; in nearly all cases, much too small, and too few in number, and improperly located. The warm air, after leaving the register, should make a complete circuit of the room before passing out at the ventilator. This can be secured only by having the inlets and outlets both on the same side of the room. When they are on opposite sides as in the case of the Wm. D. Kelly Schools, the pure, warm air rises from the register, passes over the heads of the scholars, down along the opposite wall and into the outlet. The most

important part of the circuit, viz.: that part which is occupied by the inmates, is omitted altogether. Another faulty method, adopted in the John M. Ogden and Monroe Schools, consists in placing the outlet in the wall at the corner of the room, with the inlet alongside of, and on a level with it. In such cases the cold, foul, air, as it approaches the outlet, is caught in the ascending current of hot air, and thrown up again into the middle of the room. This defect, as it exists in the upper stories of the two schools above named, could be remedied by raising the inlets about eighteen or twenty-four inches, allowing the cold current to pass under the warmer current. The matter of opening the windows of a school-room as a remedy for defective ventilation, is not only of doubtful, or at least partial efficacy, but it also involves danger to the health and lives of the pupils: to say nothing of the great waste of fuel.

The questions in reference to the languid or fresh appearance and postures of the pupils are difficult to answer; first, because the rules forbid faulty postures, and secondly, because the presence of a casual visitor would serve to dissipate for the time any tendency to exhibit languor or debility. Also as regards Question No. 11, I may say that cases of headache and various nervous disorders are frequently met with, which appear to be either caused or aggravated by some circumstances connected with school duties and discipline. But whether these troubles arise from the influence of foul air, or hot air, or too long confinement in one position, or improperly fitting school clothing, or excessive application, or undue anxiety to excel, or from some obscure physical weakness, is a question that can rarely be decided with positive certainty. A certain degree of liability to ill health seems to be inseparable from the discipline of school life, however carefully and judiciously such discipline may be improved, and particularly does this appear to be the case in girls, who may be just passing one of the most critical periods of life.

A word as to the various buildings. The John M. Ogden School is the only one in which the cesspool is offensive, and in

this case the offensiveness results from its location in a narrow space with high walls on either side which protect it from lateral currents of air so that the effluvium rises to the schoolroom windows. Would not self-acting traps in combination with a tall flue, remedy the matter? The cellar of this building is damp, with pools of standing water at times. The faulty grading of the cellar floor renders the drain useless. The light on the east side is seriously obstructed by adjacent buildings.

The Robert T. Conrad and Wm. D. Kelly Schools have no ventilation except by doors and windows, the ventilators being closed, and rendered useless in one case by rust, and in the other by rubbish. One of the third-story rooms of the Kelly School, is kept oppressively hot by the heating of the woodwork surrounding the hot-air flue. There is evidently a serious defect here, to which I would respectfully urge immediate attention.

The Monroe School exhibits a slight defect in its heating arrangements, which has already been referred to. The cellar also contains at times a considerable quantity of water. This cellar I believe is not provided with a drain.

The ventilating apparatus of the Hancock Grammar Schools includes two traps in each room (except one, which has none at all). One of these traps is near the ceiling, and the other near the floor, both opening directly into a warm flue. This arrangement is an excellent one when properly managed, but productive of mischief and discomfort when mismanaged. In cold weather the upper trap should rarely be opened, except to cool off the room. The lower one should be open always. The examination showed several instances in which the lower trap was closed, and the upper one open. The cords by which the traps are controlled are all broken, and many of the traps themselves are unmanageable In the new portion of the building the ventilation is not sufficient for one-third as many pupils as it was designed to accommodate; the vents being too small, too few in number, and placed on the wrong side of the rooms. In Miss Williams' room (third story front), one of the two little outlets is boarded over.

The Hancock Primary Schools, located at Twelfth Street and Ely's Avenue, above Brown Street, occupy the most uncomfortable and unwholesome school-building in the section; unwholesome first from want of ventilation; secondly, from low ceilings; thirdly from overcrowding. There is no ventilation whatever, except through the doors, windows, and chinks; the average height of the ceilings is eight feet eleven inches, beneath which in three rooms, each 37 by 35 feet, there are crowded 520 children, giving to each child about sixty-six cubic feet of air space. cannot add anything to the force of this unvarnished statement except by mentioning the additional fact that within three hours after the opening of the session, I found in the lower room .3 per cent. of carbonic acid, in the second story .52 per cent., and in the third story .56 per cent., and this too while in the first story there were five windows open an average of 8 inches each; in the second story, six windows, an average of 12 inches, and in the third story, seven windows, an average of 8 inches. What the condition of these rooms must have been during those bleak days of the past winter, when the windows could not be left open, must be left to the imagination of those who did not experience it, to the remembrance of those whose duties compelled them to endure it, and to the feelings of those to whom it has brought sickness and suffering, and perhaps permanent loss of health. I respectfully submit to your Board, that we cannot too strongly urge the speedy removal of this school to some other and better building.

In conclusion, let me express the hope that my report may be found to aid you, at least in some degree, in your untiring efforts to promote the interests of our schools. I have the honor to subscribe myself

Very respectfully,
Your obedient servant,
PEMBERTON DUDLEY, M. D.

### EIGHTEENTH SECTION.

### GENERAL REMARKS.

As a résumé of the facts embodied in the accompanying reports, I would state, that during my sanitary inspection of the Public Schools of the Eighteenth Section, the truth of the following statements became apparent:

- 1. That not a single school-house had ventilating arrangements of the slightest use, with the exception of the new Finletter building, and even the apparatus of that very recently constructed edifice was wholly insufficient.
- 2. That in consequence of such deficient ventilation, particularly in cold weather, not only do the children and teachers become languid and unfit for study, but their lives are greatly jeopardized from the inhalation and re-inhalation of a vitiated atmosphere; my experiments showing, one room observed, to have contained, during the hour of examination, the dangerous percentage of 32 parts of C.  $O_2$  in 10,000, and in several, the amount was found to be over one part in 1000.
- 3. That the only practicable method of securing a tolerable supply of pure air in the various rooms, was by the uncomfortable and hazardous resource of open doors and windows.
- 4. That the condition of the privies of the various schools, was, with few exceptions, simply abominable, and notwithstanding the fact that my observations were made in the Richmond school, on one of the coldest days, a fearful odor from the privies pervaded the entire lower story of the buildings.
- 5. That although the style of desks used in the various schools, may be good enough, yet, owing to the total neglect of proper care in placing children of different sizes at desks of heights suitable to them, they, in a vast majority of cases, assume habitually "faulty postures," both in sitting and standing, and many, likewise, from the same cause, become the victims of defects of the visual organs.

6. And that, finally, owing to all the before mentioned causes and some others,—absence of ventilation, improper selection of desks, "cramming" of studies, and ill-arranged school sessions,—the rising generation, although, perhaps precociously cultivated intellectually, does not promise to be a race of Spartan physique.

Such then, being the very apparent facts, I would briefly offer a few commonplace

### SUGGESTIONS.

- 1. Every school-building, old or new, whether heated by stoves or hot-air furnaces, should be supplied with a ventilating apparatus, amply sufficient to render its atmosphere during school hours, especially in cold weather, comfortably pure, with all doors and windows closed.
- 2. The privies should be daily inspected by the janitors, and kept, particularly in warm weather, well deodorized by proper disinfectants, and what is called the "key system," should, as far as is practicable, be introduced into the schools.
- 3. Desks, of at least three different heights, should be furnished to every large class-room, and special care should be exercised by the teachers in properly locating children of different stature. The custom of changing seats every two weeks, should cease, and the old-time way of having the children occupy their class rank only while at recitation should be revived.
- 4. Finally, all "cramming" systems should be abolished. The double, daily school session should be replaced by a single session, with half-hour recess, and the children should all be dismissed by 2 P. M., thus enabling them not only to avoid acquiring the peculiarly American habit of rapid dining, but, also, giving them opportunity for that complete relaxation of body and mind, so necessary to the healthful development of all young people.

J. GILBERT YOUNG, M. D.

1000 Shackamaxon Street.

### GENERAL SUMMARY.

Summary and remarks concerning Public Schools of Philadelphia, based upon the answers of physicians to printed questions, upon several general reports, and upon a chemist's report.

Formal reports upon printed blanks are made as to forty-four schools. The examinations were made in the winter and early spring, at different hours and in various weather, by eleven different physicians.

The request in connection with question 3, to report upon two or more rooms, has not generally been heeded. In most cases one room only has been examined.

The space allowed to each pupil is too small. The average of rooms reported is 143 cubic feet per pupil. The range is from 272 down to 66, in different schools. Even with efficient ventilation, the space should not fall short of 200 or 300 cubic feet.

The "sensible condition" of the air [3. b.] seems to bear little relation to the amount of carbonic acid discovered to be present. The exact percentage of the latter ingredient is stated only by two or three reporters, and in regard to thirty-one rooms in some twenty schools. Whether estimated by weight or by volume is not specified. The ratio of .56, or 56 parts in 10,000, reported in one room, is very extreme. In many rooms however the percentage is not extreme, as in those cases where it ranges from .05 to .10 per cent. The average for thirty-one rooms is .18 per cent. The examination of ten schools by a professional chemist, as given in his special report, exhibits an average of .1315, and a range of from .06 to .21 per cent. these last, and in nearly all the other cases, it is expressly stated that windows were open. Two analyses of external air showed the presence of .0288 and .03205 per cent. of C. O<sub>2</sub>, the proportion normally varying somewhat with the weather and other conditions.

Light, [3c. and 3d.] though usually sufficient, is occasionally inadequate in particular rooms.

In considering the reported area of inlets and outlets, [3e.] it should be remembered that these are often obstructed.

From the reported temperature [3f.], we learn that the schools are very generally overheated. This is in spite of the almost invariably open windows,—which are a violation of the specifications made in the question. The temperature in individual cases reached 84°, 82°, 80°, 78°, and a number of times 75° and more. The only marked instances of the opposite fault reported are single temperatures of 58° and 60°.

Answers to Question 4, show that a score of the schools examined have no "system of ventilation" whatever. The others have various devices and appliances, variously described.

As to these "systems" being "in order," as asked about in *Question 5*, some fifteen affirmative and nine negative replies are given.

Question 6, is answered by a unanimous and emphatic negative. The general reports of several observers, and the report of the chemist, agree with the tabulated returns, in representing open windows as absolutely necessary to keep the air of our school-rooms tolerable.

In response to Question 7, pupils in nineteen rooms are reported "fresh," in eight "moderately fresh," and in a dozen "languid,"—often with additions, as "restless," "flushed," etc. This, too, in the presence of open windows. The operations of a stranger taking observations would have a tendency to arouse attention and dispel the signs of languor. This influence may have probably affected the replies to this question and the following.

A "bad posture in sitting" is affirmed in sixteen cases, and expressly denied in twenty-six.

An "erect" posture in standing is affirmed in about twentytwo instances. In thirteen the reverse is reported, while in many cases the pupils were not seen on their feet.

In response to Question 10, we find the desks designated as "Uhlinger's" in some twenty-five cases, and "Bancroft's" in

about a dozen. Several reporters describe them simply as "patent," "the usual pattern," etc. Opinions as to suitability are extremely diverse. One point however is often remarked upon, viz.: a lack of relation between the shape and height of the desks and the stature of the pupils.

In a dozen or fifteen instances, the replies to Question 11 mention "headache" as more or less frequent in the schools. Some seventeen answers are in the negative. "Sleeplessness" and "nervous debility" are each once named. Remote influences affecting health will be further noticed hereafter.

Question 12, as to bad smell, is answered in the negative thirty-eight times, and in the affirmative five times. Privies were usually the source of offence.

The cleanliness of cellars, privies, and drains,—Question 13,—is reported "good" in twenty-five instances, "bad" in thirteen and "fair" in six. Wet or damp cellars and foul privies are especially noted in a few cases.

General remarks, and matters not covered by the printed queries, are briefly noted upon many returns. Several gentlemen, too, have prepared reports upon the schools of a section collectively, or upon such imperfections of our schools as have fallen especially under their notice. Some of these are well worth perusal. A very valuable report by the assistant to the professor of chemistry in the Boys' High School, contains analyses of air from ten school-rooms, and from out of doors.

Some of the points covered by these more extended remarks and reports may be here noticed.

The atmosphere of the school-rooms is terribly bad, except when windows are kept open. Practically there is no other means of ventilation. When some pretence to a system exists it is usually wretchedly inadequate or wholly inoperative. Concerning the use of shafts, inlets, outlets, and valves, the teachers are usually ignorant or careless. Openings are choked with rubbish, boarded up, or kept shut by rusted valves and broken cords. In one building, air-shafts were altered into

closets. In several instances teachers and pupils were made "almost sick" by a temporary closure of windows for experiments.

The rooms examined by Mr. Thomson, the chemist, are said to be very favorable specimens of our schools, being all of recent construction. Even here, windows were constantly open. A very intelligent observer believes that some slight alterations in the ventilating flues of these newer buildings would render them operative and efficient.

This same observer states a fact often overlooked, when he reminds us that a very liberal use of fuel is necessary to any proper ventilation in cold weather.

Some school-rooms, we learn, are heated by close stoves, and in at least one, coal-gas escapes freely from the numerous joints of a long stove-pipe.

Although no question is designed to elicit information as to animal emanations in the close air of the schools, some expressions used by reporters are significant. "Foul," "intolerable," and "mephitic," are words suggestive of something more than carbonic acid gas.

The chemical report already mentioned, and one of the general reports, give clear expression to what we believe to be the true relation between carbonic acid and animal exhalations in their bearings upon the fitness of air to support respiration. As both impurities arise from the presence and the breathing of living beings, both will increase and diminish together, according as the air is repeatedly inspired, or freely changed and renewed. If, then, in a crowded room we find twice as much C. O<sub>2</sub> as in one less populous, we may infer the same proportionate difference in the organic emanations. Thus the first impurity serves, in ordinary circumstances, as a measure for the second.

Moreover it is probably true that the carbonic acid is a less noxious contamination than is the animal matter which it roughly measures. The broken down organic substance, given off from lungs and skin, in minute particles, in gaseous form, or dissolved in watery vapor, becomes when concentrated a most potent poison.

Dr. Hammond, in his work on military hygiene, calls attention to the symptoms described as attending the decease of the victims of the "Black Hole of Calcutta." These were not at all the ones characteristic of carbonic acid poisoning, but rather of profound animal poisoning.

It is not to be inferred that carbonic acid gas is not injurious. In the proportion of twenty parts to 10,000 it undoubtedly is very hurtful; and to be dreaded even in half that amount.

One source of practical fallacy, in measuring the organic impurities of school air by the amount of C. O<sub>2</sub>, is liable to exist. A portion of the carbonic acid may come, not from the lungs of pupils, but from the heaters or stoves. In this case, of course, the animal emanations would not be proportionately increased.

The amount of watery vapor in the air of school-rooms, is stated only by Mr. Thomson in his chemical report. If the outer air be dry, or if a moist external air be carefully excluded, the proportion of moisture in the confined air would afford some indication of the extent to which it had become saturated with exhalations from the lungs. Otherwise, the moisture within the walls will vary with that of the external air. Of course, any inferences as to contamination, from the moisture of a school atmosphere, would be invalidated by the presence of evaporating pans in the hot air-chambers.

The analysis of air expired from the lungs, is highly instructive. It shows, by volume, 3.7848 per cent. of C. O<sub>2</sub>, and 2.658 per cent. of water by weight.

Improper arrangement of desks and windows, whereby pupils have a glare of light in their faces, is often noted as productive of discomfort and of ocular disease.

A form of desk that brings the books too near the pupil's eyes, is undoubtedly, justly noted as a cause of near-sightedness.

Cellars are, in several instances, reported as undrained and offensive. We believe damp cellars to be fruitful sources of disease.

The privies of several schools are reported to be in a disgraceful condition. "Abominably and indescribably filthy" are the words applied to a group. In some cases, emanations from these enter the school-rooms through open windows.

Stables, in close proximity, render some schools unpleasant if not unwholesome.

Schools are sometimes located in buildings wholly undesigned and unfit for such uses. In the Hancock Primary School, we find 520 poor little innocents huddled together in three rooms, each 37 feet by 35 feet, and not 9 feet high. Windows, from five to seven in each room, were open from eight to twelve inches, while the tests showed the percentage of C. O<sub>2</sub> to be .30, .52, and .56. Space for each pupil, 66 cubic feet; outlet for foul air, none; system of ventilation, none.

Is not the reporter more than justified in his indignant protest against such abuse of our children?

B. L. RAY, M. D. 3509 Baring Street.

- QUESTIONS PROPOUNDED TO TEACHERS, IN REGARD TO THE CONDITION OF PUPILS, TEACHERS, SCHOOLS, ETC.
  - 1. Date of making report.
  - 2. Name of school and location.
  - 3. Number of classes, of scholars, of teachers, and of rooms used for study.
  - 4. Does the air get foul in the rooms, or too dry?
  - 5. Does the ventilating apparatus give you enough fresh air, or do you have to open the windows?
- 6. Can you by any means keep the air always tolerably pure, as well as warm enough?
- 7. How many rooms have windows in front of the scholars?
- 8. Of the other rooms, how many are lighted both from the side and rear?
- 9. How many rooms are cut off from a portion of light by adjoining buildings?
- 10. How many are sufficiently lighted in all parts, even on (ordinary) cloudy days?
- 11. How many scholars are known to you and the other teachers, who have weak or sore eyes, or near-sight, or other defect of vision?
- 12. Are all the desks and seats of one size in each room?
- 13. Have you any remarks to offer as to the merits of the desks and seats?
- 14. Have your scholars used gymnastics? and if so, with what results?
- 15. Do scholars or teachers suffer from headache, lassitude, nervous debility, nose-bleed, or other affections which may be attributed to circumstances connected with the school? Reply as fully as you choose, with accounts of any cases you choose to give.
- 16. What is the average temperature of one or two of your school-rooms—say four feet from the floor, in the middle of the room? State also the temperature at one foot from the floor, and at seven feet.
- 17. Out-door temperature.

- QUESTIONS PROPOUNDED TO PHYSICIANS, IN REGARD TO THE CONDITION OF PUPILS, TEACHERS, SCHOOLS, ETC.
  - 1. Name of school.
  - 2. Date and hour of day of examination, and state of the weather.
  - 3. Select two or more rooms, representing the better as well as the poorer part of the school-house, and in each state
    - a. Number of cubic feet of air to each pupil belonging to the room.
    - b. Sensible condition of air, and percentage of co 2-
    - c. Sufficiency or insufficiency of light.
    - d. Whether adjoining buildings intercept light.
    - e. Number of square inches of opening for inlet of air, and the same for outlet.
    - f. Temperature of middle of room, four feet from floor. (The rooms are not to have been specially aired for at least twenty or thirty minutes before making the observation.)
- 4. What system of ventilation is employed?
- 5. Is it in good order?
- 6. Does it supply enough air without opening windows?
- 7. Are the scholars languid, or fresh in appearance?
- 8. Are they in faulty postures,—twisted or stooping too much?
- 9. Are their forms erect when they stand?
- 10. What kind of desks are used? If a well-known pattern, merely state the name. Add comments on suitability of the desks and seats at your option.
- 11. Are you aware of headaches, loss of sleep, loss of strength, or other injurious results, traceable to circumstances connected with this or other schools? State your own experience as fully as you choose.
- 12. Are there any smells in the schools from drains, cellars, or privies?
- 13. What is the state of cleanliness in these places?





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# ABSTRACT OF PHYSICIANS' REPORTS.

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	such Start above Lombard .	1	12	N E snow	110			Sullivaent			Tuo	100	problem parties the 12x18, connected with fu- luaces in cellar					A	Lindingers	V.	No.	1.0	Shape of deske prevents standing error in front of them.	12% . 0 1	15,1	
	Some Storet, below Sexthannen.	: 15	11 - 0 A M	21,12	[28, 200]	VV. 210		Insufficient	V	North	Notes		Luaces in cellar As above								NII.	teral	. Shape of desks provouts standing error in trent of them .	United M. D.	1871	lun
	1 ast and Twenty-second Sts	1	1. 20 2.31	N E snow	(165, 150) (202) (20) (115) As D	571	Gueil−W. O. C O <sub>2</sub>	Sufficient	1	Name	1-1)     1-1s     1-1s	607 750 1 to-	)			Lucroni	3			(In other schools )	No.	Egr. (4)	Pullers broken and outlete all the at America mean by wrothers, lemperature received. Sunnor which bring priva "smell" Bestel by stoves. But of one room "personant from prival mell "means and means are medically as the story of the privalence of	pedda W. Hoj	187) L. Rojouth J	Lagran
	a moont Ao and Sixth Strott	2.25	9	Kain	(115)			Sufficient.	,		1 1_15 1	l la-	1 Three connected with the			No. 1				1349	*11-				I Breath I I purcht a 1 Isra	Slov
- 5	i i i		11,30 A M		150		* Dry & oppres ive " ! CO <sub>gr</sub> (NOS)	Insufficient					(change) (Shift comesting with the (change)	1 1		a or ranger de		3:-	Not seed—patent		\		Scholars I've laght  Report a believes much fugues to yelon here ounce from because lightness.	It if the	INO	Hot
	Porth Street above Porticle	11.15	20.00	Rain	210		"Bad"				Cluster 1					Fre-h			(Pit of sich is)	Tresport to ob-packs Sec. 1:	No.		l same leditarian	1 1 111111, 107	1865	
l oas	and a death of the Bustons of		10		1	, '	COprain 1	Sufficient	( L toolie	,	(192 top - ) (192 tot - )	76	Cflus 10×12 from cells cto red			W O n h		T.	(Pd of schools) wed mad this throp schools.		20		Offensive stables from by	(Wm O tak	bef	
	AND REPORT OF THE PROPERTY OF	518	11)	Clear	(250, Dec)	1 6	C 0 <sub>2</sub> (S) C 0 <sub>2</sub> Pr 10	Insults out	In how —			70"	(Plues 6.16 with opening (at floor and central)  (These heated by change			Frish				No	20		1.2		Pol	
	Farmount Acc, ab. Twelfth 81	.: 10	11.50 "	11	178, 101	14. 166	CO <sub>2</sub> 19 [9, 10, 10] (nool 0) (O <sub>2</sub> 09, 10, 10) ( O <sub>2</sub> 09, 29 )	f Insulherent	Partly.	1 111 114	1 Lione 2013 1 (201 201) 1 ( 300 )	1 Ternal	j. (Trapsmar floor Aveilin	2.1 No.					Thlinger's and     Bancroft's,	No	No.	Lati	to the and path (set of type broken and a sloce of sufficient and state) to the sufficient Approximent for the sufficient arming dominant to the sufficient and surface of the surface of	15	1 - 63	
	Wo Astroly, door Twelfth	3.12		**	[73] As 20		and $\left\{\begin{array}{cc} 10 & 16 & 16 \\ 0 & 0_{p} & 20 \end{array}\right\}$	Sufficient.	No	1 ( 1716 )	1 100	72-	( Heated thies with regri						Uldinger's	No.	No.	Bul oft n wet	Heat bully distributed,		1177	Fin
	Melon Street, helow Tweltth	9.11	**	41	( )	21 (1)	lenzheory (CD <sub>2</sub> , 20)			7 68	80	T Tie	Warm fluct in side wal       and registers in floors,       The tail fluor with veri	ls   200						No	No	Good	Z = X Ventificity closed with intdish or by unit. Proc z = z = z = x = x = x = x = x = x = x =	O- Penderion	1500	Pin
	Twelith and Wistar Street .		315 P.31		Title to to	(f G	issel   C O <sub>2</sub> , 21		Furtly	1.0	1 2 170	1 74	Hestel floor with jegi							Headache.	310	[Rol Collar] dampjarvics]	1	Duiller, M. D.	18 (1	1 11
	Weststreet below Twellih	12	10	Clear and was	rm { 152 } \ (135,117 )	Av. 149 Gr	11/10, 25 0,0%, 22 1		No	121	None         67         90 m	12	That are impact as dues and one fluidling ter in each floor below.	20						No	20	Pau	[2.15] Ventilation as In Consider third stary opposition, with hour of rood incoming the [Dance 18:13 way until and machine one or a pupilical terms, each [7] vol. v. 80. Har. [1/13] massing	41	1505	110
	twelph street, door Brown	. 15	11.45 A M	Damp	[10] A 100	:	lose ( warm [ P O <sub>2</sub> [ 52] ] [ P O <sub>2</sub> [ 52] ]			175	11	1 1	None							No.	Υ.		to such (37 x, 5), x Su. Har P Opmen with 5 fees window , S to 12 inche copen in co	ol di	1111	
	Marthoro Strict, abov. Thompson	2.17	11 4.30	Chear	120	1	$V_{11_11fed}$ ? $(1_2, 1677,)$			Note	None	W 0,	Non .			TW O moder 1 TO by for him of	$Y \sim$	You	See remarks —     Chimger's,	Other schools; yes	No	Hal	Disks poorly adapted		Isid	
ress i	Edmer Street, above Thompson.	9.93		Clear and bu	102 101	- {	Opposite I CO <sub>2</sub> , has I	fusullie ent				70 -	None					Su	Burtotte		\	hoof	larght for front and to rear of pupil		15,1	
a kan na sana a a	Allen St., below Finuldord Hond	2.16		thar and ec	of 121	{	Pair PO <sub>2</sub> th	Sufficient,			168	0.45	Four shifts with no pro- ficable openings; builds   I shame	Zold Zold					Out of date .	See tenuiles .	No.	Bu-L	* Atomissidy and Indescribebly fifthy price	.	1 10	
toungton 8 and ary.	Montgonery Ave., ale Ra binond	2.19		Snow	90	1	Close 1 C U <sub>2</sub> , 128 1	**		None	Unused	700	None,					No	Uhlings r's	6 0 0	No.				184,	
daary N ( )		la .	3 P M.	11	118	{	Close and Foul 4	**		6.1	(Unused)	740	None		п	M es	-1	10	h	14 11	No	!			1817	1.
rmory N + 2 .	Marlboro Street, ab. Thompson .	2.17	"	4 Tenr	101	{	Fair. C. O <sub>5</sub> , 951				None	71'	None		l to	16	-1		6	Other schools; yes	No.	41			1848	
natury No. 4	Allen Street, below Shockannwyon	2.16			75	4	Pose-Ind sudhin. (		Parity.		168	75	None	Note		( Very lauguid ) cand restless, )	No.	Yes.	that of date	See trimula	No.		During test for C H <sub>2</sub> (windows being closed) were all per pris became "almost sick "from conflict all	n J. Gilbert Venns, M. D.	1860	
mary No 6	Palmer Street, above Thompson.	221		Cloudy and it	ald 92	1	Yeav fort. 1. Og. 105.		No.		None	702	None			(Dushed and)		No.	Uldinger's	Y15	No	Goal	Ventilating shall aftered into chaefor,	Young a D		
rom No 7	Otre and Belgrade Street	2.5	11.4.31		110		Very foul					No.	(S.e.remarke) None,			Very fungued	Υ		(Bancroft's and)	Yes; So remarks	X				1815	
se n Sc :			a r M	Rain and we	rm 108		Very lond 1 C O <sub>2</sub> , 093					61	As alsoys						Buicroft's	See temaths	No.		All the Schools in this Section examined by one nor	1	18.0	
	Monteomery Ave and Louist.	. 24		( Cloudy, dam Land sorm,	r! 180		Chees [				175		Short at sole of her of the soll of the soll openings only it floor	11 0						As in No. 6	١.		All the Scheds in this Section examined by one may be seen but the "Timbetre" has ventilation well another, and that one is inadequate by personal ventilation and people become farguidant scale weather to about sea and people become farguidant feeller has only for sexy individuals purpose. It is the second people of the se	In I	1951	Lam
T & Indiana onto			11 \ 11	Damp and w.	1 111		Close U				175	- 1	E ( it floor	)						0 0	No.		feelde the nit being very injuriously impure, 12 in 13 rooms averages 1041		JSc1	Vac
Don a S. H	Durdingdon and Jalgemont Sts	0.18		Clear	180	1	Close and Post   Close and Post				None	(in	None			Lanzord			Dilacer .	See to Blacks	Yes	13 ml	Style of the de translapted to vize of pupils, causing had po-	.	Prior	
715000	n n		1 II N	Clear and se			Toleralds (					121	Norm			Moderately treets							Theorems, with two long study hours are greatly in pointing health.  Suraba westomes to horten hours and prevent the builting.	1-	for I	
Boars W. Hallwell Grammer	Franklord Rd & Alleghory Av			Clouds	200		PH_Panelightexess			l lu			Properties buttom of mos	11.1		Fresh	ν.	V-	Suitable, Bimerolt.	12		r bend	of diance and correction of furthe above noted, in			
Henry W. Hallissen Gramma			11.71							- 101	-111	100	( Eron the bottom of more ( rather than from top ) Cold on the in their stor	1 11		711-111	,,,,	**	" Uhlmger's				the time upper of use whether timelequate. Restaurage is helpful of children's heads. Some rooms builty crowded.  Heaters not need. Warmed by shores.		1.71	I Sharp
Sterriege to similar and second	stors I mulitord Road and Someroot S Learn, food Resid and Huckline S		1	Char	120	- 1	Yolerade   CO_"COLO"			- 14	300		(Cold an Box in floor stor (1) of up	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,											1,814	Sto
Bart in Secondary	1 nutritoral Bend and Bucklines	a ()	1 1		1.36		CO, normal			None		70	Loutah registers usar ced	The			No.		Bancioli's		No		*Boome large, sirv, and well readdated ** Ree 3t and Bh.  Are all times, almost inephilite from animal exhibition			Bot
carroll Primary.	Salmon Street, above Somered	311	10.7.5		205		Vors foot				Sone		Some			Less Pools -	1		Suitable, Uhlanger's, (Suitable, Thlue)		No.		Arr all times almost morphills from animal exhabition vibrar four Obl. docks in two rooms. Building of analysometric morphills in some rooms. But smell from Arr whitest in phillic in some rooms. But smell morphills warmed by the Bull I hand-quickly warmed.	The H Sher-		
Trang Consolidated	Bridesburg	12	11	Affe by	198		Very foot     P Og. brige excest						Xone			(1st, Languid)	20		Suitable, I blue   ger's See res	Z 10 of a to model		H el	Beater c send up coal gase	wood, W. D.	1817	l torn
George B. McClellan Secondar		1	10 30	Į.	128		Greatisces ]			*11	7.0	75	Cold our register near flor	or No	\u0	Luzud		Yes	Suitable, Uhlinger's Suitable; Uhlin-	(a) objective (	`.	Cin. I	Property is not well-dialned		1.08	Hot
Bandolph Consolidated	Nicetown II	1.5	.012	1	[115, 25]	14.85				Nom	Non	655	Non-						Suitable, Uhlinger's Suitable; Uhlin- ger's Baner 40-	(nervous debulity)	\n.	1 m				
Bayard Taylor Consolidated	Turner Street, above Venange	12	11.	Plondy	115	1	( CO <sub>2</sub> , extens )			274	NI)	7.2	By gesters near the floor,	Yes	No	Fresh		61	Chinger's	No	No.		In the second transaction of the second seco		1+197	
5   Boudinot	Indiana Avenue and P Street		11 A 3	1 10	100, St. A	10.24	C O2 exerse			144	180	70	From lections of room			Languid !	Yes.	•		Headache .	No.	Gued	In upper room temperature was str. Some rooms over crowded			
9 Edward Gratz Primary and 5	Secondary Josh rion and Twenty-third Se	4,	10.45		160, 133-A	Av. 146			1 4	"Heater"   are "   288	1 288	70-,667	Hater's			, ,	?		( Not suitable—) (Uhlinger's )		10	41	No proper adaptation between size of desissand of pupils, to rendering positions constrained and non-oniortable	(W.H. Warder, (M.D.	1871	Furnac
					Total averag	ge, 145	C O2, 18															,				

\*\*C. O. is here expressed as called for by the question—in per centage, as "Kensington Secondary" C. O. 128 or 10% of one per cent., or, as more commonly expressed, 12% parts in 19,000.

"W 1) " is written when reporter directs attention to the fact that unadows are open.

When different rooms are reported upon, the appear rooms are placed above middle and lower. Average in brace.

"W 1) " is written when reporter directs attention to the fact that unadows are open.

"W 1) " is written when reporter directs attention to the fact that unadows are open.





means, keep pure as well	ave windows	TEACHERS SUFFER E, LASSITUDE, NER NOSE BLEED. OR	WHAT IS TEMPE OR MO
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WHAT IS THE AVERAGE
TEMPERATURE OF ONE
OR MORE OF YOUR
SCHOOL POONS?



#### GRAMMAR SCHOOLS.

school houses.	•	NAM ES		_	44	4.0 × 1 × 2 × 3.0	olar ulora	Dots int Air Git Fold	lices the Ventilating Apparatus give crough trush Air, or	my menns, krod bly pare as well fr?	on heer windows Scholars	one to lighter	otes are cut of of light by ad	nstart stafferfearthy Lynaris, even in	How many Scholar- have Weak or Sore	ske and Soute of It resurt	HAVE YOU ANY REMARKS TO	HAVE YOUR SUBSLARS	DO SCHOLARS OR TEACHERS SUFFER FROM HLADACHL, LASSITUDE, NEE- YOUS DEBILITY, NOSE BLEED, OR ANY OTHER AFFECTIONS WHICH	True on v	IS THE AVER THATTER OF MORE OF Y OL RODAS?	FORE YOUR
NAME. LOC	CATION.	PEINCHALS	DEN BUET	How ID OF	Total School	nest Make	mules of To	Too Bay /	do you have to open the Windows:	n yon, by n An toleral werm enoug	Sent of the	How Bushy to from the side	ow many re- on a portion may leading	w purey road faterly, for all only, wouldbert	Eyes of other defect of Vision (	e all the De	THE DESK'S AND SETTS,	WITH WHAT RESULTS"	MAY BE ATTRIBUTED TO CIROUM- STANCES CONNECLED WITH THE SCHOOL'	from Ben	from floor, from floor	dde. Marsas.
					· · · · · · · · · · · · · · · · · · ·		~ <i>~</i> ~	<u> </u>		841	====	# E 	# H H H H H H H H H H H H H H H H H H H	###		2 5				g -	1 T	N Date
		5. L. Riche .	1851	Hot sir		March 1, 1875		11 Not often .	Have to open windows	We can penerally.	Ali	9	None	.01	24 weak, 28 near sighted	They are	I have not	No	Not to my knowledge.	157 116	. 25° 66.54°	36° 1
me s sente	Street of Nintl 1.	oras W. Feiter, Arlham Brown	1 1871	4.1		March 17, 1875 1		H. Very foul and dry		Cauzo C.	4	4		5	to" weak, 60 m. ar sighted	0 0	Those used are uniformly detective :		Some complaint of headache and other debility	16 0	21 64	72 1
8			1 1871		Boys	Feb. 9, 1875 Feb. 25, 1875		5 Not foul, but day	Open wnolov - a - coundly	1 · ·	VII   P	None	â	Ail	Twenty three	Soutors Law smale F	Well adapted to purpose intended	10mo a week - 20 minutes (	They do not	6 6	2 18	141 1
3 N	I wash		2 1827		Pone			6 Forth observatilly,	e e e	Yes.   Difficult to keep     warmduring cold   weather	All		None		5 near righted, I' weak.	doks, led 1 size f. They are	Ultinger pattern, and con-ader them     very good	( become	No parth ular case of the kind	61 6		62 2
- 1		A. M. Ryan	2 1869	r	Girls		7 320 7		Obliged to open windows	(weather	1	3		- 1	35 work, 25 near sighted	0 0	very good   j     Uhlinger pattern, backs are too draight.		No parts that case of the Land Some seventy-one convolute	10 10		44 3
·		M. E. Henry	$\beta=1874^{-1}$	Strom	Girls	n 15, 1875	7 385 7	7 Proquently become dry.	6 6	0 0	All	2	41	6	Englat	86 11	They are combatable		Both scholars and teachers complain of he alach-	16 7	3 75	42 3
		I. A. McManus	3 1879	61	Boyn	6 15, 1875	6 280 6	tel Frequently lond	h	Not moreleweather	All	2	11	",1	Six	0.00	0 0 10 10 1 1 1 1	No	and the second of the second o	44 7	A 75	42   "
- Land a			4 1814	Hot sir	Girls	" 11, 1875		5 Not often ,		(Weran exception)	.3	2	2	3	5 weak, 10 near sighted	11 41	See tem the $^{\mathfrak{g}}$	Yest	See remarks:	1 45 - 8	8 1/4	30- 7
- 1 Sant - of a Sixth, a.		o Henry Parker s. I. Donnelly	5 1871			1 ob. 15, 1875		5 Both .	Yentilators uscless	Only in one toom.	3			3		P 44			(Average suckness this winter, 30.1-7, was from ) (above complaints,	leti Ji	dt 75 m	196 %
s		olo S Lawrence	5   1871		Guits >	" 8, 1875	1 179 4 · 5 164 4 ·	4 Gets very foul	Obliged to open windows  { Cannot open windows on account? } define of the contract of the con	No	All	2 ,		A11	25 detective sight Two or three cases		None	No	Both scholars and teachers have bendache	h	4 18	46 9
e sa mar Salva Sprina n	low Sixth . N	Cate P. Kereven	5 1-75	hr.		March 15, 1875			of mouthciency of heat.   Have to open undows	Have no difficulty		None	None	Alt	Fifteen cases	0.00			Lincount of impact un Not often.	1 po .	661 - 105 <sup>1</sup>	50 11
	N	Valuelie H. Maguire	5 1875		Boys	" Fs, 1876				Yes	An	All	Alt	**	Fourteen cases	11 (4	Deeks rather too low	No .	Not to my knowledge	70 (	68 65	53 12
N = Lest will be to the control of t		Lovinia Loder	6 1868	1	Girls	" ' <sub>1</sub> 1876	5 172 5	5   Foot .	It does not brang means Obliged   to open the windows.     Ventilators do not work, have to	(We endeavor to)	d	None	None	44	Nigeteen cases	Yes	We need higher desks and wats for the t larger girls.	Yes—herreficial		63	65 67	ke 15
Notice of the Property of the		l. J. Brodu	6 1868	16	Boys		5 grd 1	5	Yentifalors do not work, have to lopen the windows	( keep the an pure ) Tolerably pure, ) ( but not warm. )	4		Ail	11	Eleven cases		Old Uhlinger desk		No special cases,	70 7	75	. 36 11
Sont Western Gates statum at School M. E. our S.		lury J. Falos	7 1869	**	Girls			to Generally good	Othigod to open the windows	We can with rare	1	4	None	All	Fourteen defective sight.	41	None		None		70 70	
· B > 6 r min r S Twelfth me			s 1828	**	Boys			5 Often fonl	Ventilation lad (Novemblating magnitus denoted)	We cannot	1	4	4*	**	Sixteen delective night.		None	But bittle	Three complicints do ex-st		10 10	11 16
Los Str. New Grotter Street		. McGonegal	8 1828		Guls	26, 1075	5 205 A.	4 Apr to get tout	{ No ventilating apparatus, depend } on doors and windows }  Yeutilating apparatus insufficient	In 2 rooms only	Note	1	, 1		About one in every!   (twenty wholats   )   11 defective vision	44	Front-past would be an improvement		In the rooms where the ventilation is defective,		1671., 118	
a jet - Es s Grant - 8 sd Numbered	these als Closting V		9 1869	St. on			216 8	6	(No ventilading apparatus, open )	Not in cold weather		4	Notice	1	17 * "	**	They are comfortable	No	Never heard of any cases		18   67	
Light a vita transitions head can a	· A	t. W. Gould	9 1860		Girls	l eb. 16, 1875	6 267 6	b Too bul	( withtows 1	( It seems to be mi-) ( pressible.	2	4		АП	18 "		Too straight and stid	Pliey use arm exercise	Not to any great extent,	7012	(21) 65	101 .0
_ > W Gira Gr School But to be	n Fifte ath E			Hot mr	Girls	March 11, 1870	· /39 ×	8 "	Obliged to open windows	We cannot .	None	ts.		1	52 " "		Baucroft's desks, too high	Yes-with profit .	Both teachers and scholast suffer	11 66 1	6812511-	7979-17, 21
≥ N W 1.50 Seminute School in			16 1532	16	liny«	Feb. 21, 1575	6 252 (	h All for dry, 5 rooms foul	0 0 0	All but one	2	2	2 (	All but one	18 near sighted, 10 weak	**	None	No	Two teachers complaints	14	h5 h8	8 , 22
	or, b low teresion. A		11 1870 11 1870	"	(iirls	- 5, 1875 - 1, 1875	5 200 5	(Plunge the sir ecasions)		Yes		2	3	AB	Fire	tr.	Not sufficient surface	They have	I think not		(9 71	
E. N. Labertle Bays Grammar Schools			13 1860		Boy-	5, 1875	226 5 1 280 6	6 Foul		(No; only by low-)	4	2	4		Eight Laghteen	All one size	(Single desks would afford more play)	Once a day for 15 minutes-1	Bendache from impure tirand over-wrought brain	185	67 48 60 64	1
Wromer B. vs. (rand), r. S. b. d			1.1 1505		Boys	e 25 1875		3 Some lime-	We ventilate by opening windows	( Not always warm )	All 1	è	Mon	All	Sixteen cases	They are	for the grass where space will permit f Single desks	(excellent tesulfa )	No		12 17	
Z. Micros Gine Gennine Scholaman Wood, near	er Twelfib . II	Durietta Ganable.	14 1872		Girls	March 12, 1875	4 164 4	+ No.	We open the windows	We can	2	None (		1	Seventeen	10 41	(In three rooms the top of the desk is) too far from the seat.	( Not to any extent for want of a	They do not	63	eta 70	Jul 12
. Mitros Bys Granus 8 and ammin	· A	A. McFirrhirol	$14 \pm 1872$		Boys	" 9, 1875		1 Geges dly toul		Occasionally .		2 in the t		sencially 2		61 11	Not any	Yes-satisfactory results	(Tenchescand scholars suffer from merconodes) / bibly, at times.	1	n1 7n	12 29
E calle Garly semant r S have a Furmount	t Ave. al. 12th 8t - A		11 1568	* 1	tiple	· 6, 1975	7 292 7	5 Foul	" if necessary	(We have great)		trar.   1 6 zide, 1 l rear.   1	1		Nuncteen	21 M	(Prefer the Ultimger pattern, much) more comfortable.	Yperceptible results		161	701 72	ka 20
Die glys Grammer Son in			14 1868	44	Hote	e 9,1975 1			· ·	No	- 1	Y side, 17	None	1	(* near sighted, I son ) ( cyes, )	• н	Dhilfinger desk is far superior to Ban-1   croft's.		No The two divisions they do, because at children?		65 17	
t in a Gorts Grammar Sch. t	20th St - L		15 1862 15 1862		tints	" 10, 1875 11, 1875		6 Frequently gets fool	Have to open windows	Gets too conf	1	4 ,		Α11	Seventeen Foorteen		Would like them to vary m size Convenient in heighth and size	No room for them	(any crowded into a space not large enough a No case, reported		in er in land	10 31
2 L. B ys' or mmar S good			16 1-42		Boys	0 11, 1875	7 820 7	7   Some rouns get foul 7   Some name foul others has	(Ventilating apparatus search, Ob. 1 The date open standows	We can		,			137 near sighted, one)		More convenient water could be provided.		Not be a creat extent		0 71 1	
Jefferson Girle Grammar School			16 1842	., +-	Girls	" 11, 1875	6 28h 6	6 {Sometimes too fool, rarely }	No essary to open the windows	We can	2	None	Xone	All	j Sixteen near sighted i		Good as day in use	Louited extent	Pupils and teachers suffer secusionally		71	
granted and the state of the st	nd Lawrence Ste 1	Emeline Wieguer	17 1868		Girls			5 Foul	Must open windows	Not on very cold t	3	2			Fourteen	et e	We have the Unitager boach, scating     two, not as good as chans     In two poons the desks are too small	Formerly—no particular results.	( 16 sufter from headache, 6 from nose bleed, but ; [2mby 2 uttribute either to attendance at school ]	615 4	GB 107	31 33
. Int the profession of School			17 1868	**	Boys	" 12, 1876	5 207 5	Transfer of the second	f No ventilating apparatus. Obliged (	We tenned	1	2	11	44	Eighteen	e 6	I In two divisions have been in use 30 t	(Construction of a hool prevents)	(Truchers make no complaint, or asionally at		15: 1 15:	die
Tague Eye crace at S he land Mathematic	a, h. ib. Thompson - V		18 1868 18 1868		Boys			6 [Apt to get foul, heaters]	I to open windows.		1 Tprin l's t			Five†‡	Ten (6 weak, 10 near sights)		years, others pretty good.	the practice of gymmatics.	scholar has to leave the round from ness bleed,     Only in cold days when head control be had		pai obsolită cord kepl	
The state of the s	and Daughin 2	Miller, acting Prin. ()	19 1874	Steam	Girls	* 13, 1870	6 1 328 6 I	6 Food in two rotins	The opening windows [ ]	Not always 1	1 prin l's 1 16001   1			.A.II	(ed, 2, other defects )	6	Quite confortable and convenient	(Yes; since Navomber; advan-	No cases love come to my notice	Stee 10	court kept   ensures;	31
THE Bear Des Commerce of the Section			19 1871	Steam	Box	10, 1875	1 215 6	1 Sentinger ford	dlord sufficient hesh on   Sometimes open the wholese	I believe we can	n 1.1	Firein   side and		44	Ten	Spujor chas Sinch	They are too small. Scale are too high   Jor some of the boys.	(They have not—short inter- limis-ton instead	(Such affections have not been experienced) - (any extent	70	700 4 72	15 10
at Entered by Committees that I are not not not			20 1807	Hotan	Boye	1875	5 920 5	's fider-	En quently compelled to open agridous	I cannot .	All	trent )		41	Eightean	They are	Perfectly suitable.	Yery little .	Frequently		16 70	
al Burell reforms reduct	1	4 L Rumbi	20 1867	44	Girls	9,1875	236 6	6 Both		By use of windows - 1	ronttwo	Notes			Twenty- rabit	41 - 11		No.	None specially			39 14
a Francisco I Pal Co		J. Morton Thomas	20 1864	Steam	Boys	1,1475	C 251 G	6 To quality seis toil	There to be lowered.	(In the coption)	I 1	Linomside			Naneteen		Desks in witth division to conall	They lave, have to slop for parted of result of result of result of result of results.	They are but few cases		71.8 71.8	
which is a second of the second		M. A. Todd	20 1864		Girls	5, 1577		a Foul	Open the window (Heve no ventilator - Open the)	Yes, by lowering to windows	1				Nineben	They are	One room's secondary desks too small	Tre, will of room presents	Her detail		62 67 6 61 65	
at the control of the first		1 Ao Ba Shea Robert T. Murida	21 1515	Holour	tords Boys	9 36, 1860	12 170 1	4 At titues it these	audous i	We think we can					Thurs	Yea.	Our fundaces thirty year old, and i	No late entemple ground	Theories and scholars untler for the want of a perconical and in winter with the cold		59 80	16
The state of the s		I Burrough	22 1-11		hits	9, 1877	5 20 5	a Both	(Insufficient ventilators, Open the)	N					This		The deskt are locatroight and close!	No ample plsy goonted	The same of white with the same of	111	67 70	-7 17
y many 2 and number to 100		Frederick Letter time	22 1841		Boys	9.1875	5 250 5		in in in the	No .	1	3 .			Thrity-loon	They are	The wals should a sume an eathness () accordance with the scholar's body ()	Some of the nedo-be or head	Tes.		70 (3	
4 1 of He Green commer School Frontier	of Art Chord of C	Pizals th B. Shalicro -	_1 1871		thit	$\sigma = L_{\rm sp} \log r$	1 177 3	4	N 11 1 11	Ves	All				Thurton	$Y_{\ell}$ s			We do not hear of my complaint			17 PI
If the Her we Bryel by apon school		Chatles A. Sanger	23 1574		Hoys	6,15%	I 170 I	1 "	0 0 0 0	No		Note	N 40		One		Not any		Peachers suffer, more bleed not uncommon.	07   1		35 .81
· · E. Greener in the land Ferrome	c t and the sen	J. H. Sido	21 1865		Boys	9 11, 1877	5 270 5 6 1 990 6	The ventilating approxim-	but little use, the windows have to be	Yes	2	1.1			Four		(They are good except the left log of the) (last tow of scats breaks easy.)  See remarks	( Foo little to be of any benefit; )	Yes, pupils of only theretope fully		117 - 455 ) 2 165 (1641)	
I am a Common School .	Bill, boll Alloghey Av.	M. Harenbotham	21 1888	Missie	Girls Grebs	20, 1874 April 7, 1875		rooms, misons fixing the	aces we are confident to confidential	foot air and old	All	A11			Twelve		Free Colonia.	They have be to like it.		60 0		19 53
Hall the organism Standard	and proceedings and the	Edgar A Sing a	25 1872	Straina	Boys	May 1: 25, 487	1 het 4	5 Impure but not to dry	Windows or assembly opened.	(Abundantly, it is i	1			All	Heren		(The sents and backet do not e sitorin to) (the shape of the body.		I know of no cases	105 7	n 53	35 54
E. M. service Greek Grammar School - Sevente	enth and Christian	E. Christopher	16 1869	Hot sir	Guds	1 e6, 23, 1-75	7 381 7	7 Foul	{Ventil thus do not admit enough   freeleaf).	Ves		3	All		Twenty		Title stape of the 1995.		Yes, Inda	10 7		40 75
E. M. stanton Boys' terminal of a book		Morrey Paris	26 1869	41	Buys	" 10, 1875	$b=272+\alpha$	6 No	t W. Common countries			2	None	1	id new sighted, one in bland money ve. 1.	**	No remarks	No	No	b I pi	5 71 C	12 56
gt Nowber Garlet temment School Thirty-		L. D. Elmo	27 1872	u	Girls	0. 10, 1+75	5 261 5	5 Becomes dry	Ventilators insufficient, Open the     Windows,     Ventilators do not admit enough;		8	.2		All	Turks		Seats are quite condectable Leaks too high for small boys	Truchanded extent—not salue t		68 72	2 2 2	20 NT
** Name to be yellow the state of the state		J. P. C. Stekel	27 1872	44	Boys	" 15, 1875 March 5, 1875	6 219 6 7 m	o Both	Twittlatus do not admit enough t fresh ab. Open the windows Na ventilators, compelled to open i windows	Chamel		3			Sixton 1 Numeror sighted, 201		Wint of adjustability of desks to size t	(factory )			72	
Roya, da Garle Grammar School Twenting		M. Helen Burness	26 1868		Hoys		7 Jun 7		Compelled to open windows	Not always.	1	1 side 1)		7	Numerical state of the state		Wint of adjustability of decks to are 1 of pupils the great defect   1 smallnest of squre between the decks   1 crange the scholars	No			6 68	
Time news-ary support to the b				r thinp.						there who have for	ca tema I	been thus	ov-rworke	d, the		the process of		ie in the . %13th Sect. 1	position of decks very changed, all room	as but on	ir.	

mode-ary any art t the back, which cholar require when not a large mode are all and so mode and are all and so mode and are all and so persons. They must therefore, walk about or stand, and so persons the mode are all and so mode and played and part that are all and so mode and played and part that are all and so persons. They must therefore, walk about or stand, or stand, and so persons the mode are all and so persons to make the practice of being a possible and the part of teachers and part that are all and so persons to make the practice of the mode and part that are all and the part of teachers and the part of teachers and part that are all the part of the are all t





3	means.	RS OR TEACHERS SUFFER ADACHE, LASSITUDE, NER- BILITY, NOSE BLEED, OR	TE or	MPERA	EAVE TURE OF OF TOOMS?	ONE	
•	Can you, by any the Air telerably	ER AFFECTIONS WHICH ATTRIBUTED TO CIRCUM- CONNECTED WITH THE	I ft. from floor.	4 ft. from floor.	7 ft. from floor.	Outside.	NUMBERS.
F. }	never com	scholars suffer from headache)	52° 50 58	53° 53 61	58° 60 65	20° 30 50	1 2 3
)-}			58 52	60 56	64 58	20 23	4 5
4.3	Not in cold v	men of school atmosphere	55 N.	55 Thor	50	23	6



# SECONDARY SCHOOLS.

		-			7						_											
SCHOOL H	OUSES.	NAMES  OF PRINCIPALS.	SPUIDON. WHEN BUILT.	Hew Heaven.	NEX OF SCHOLARS.	Pete of Making Report.	Number of Chass Number of Sch. bas Number of Sch. bas Number of To others, Results fixed for Study	Dols the Air Cat Port.  off  To Dry?	Does the Ventileting Apparatus give enough fresh Arr, or do you have to opin the Windows?	the Air falentity pure as well as warm enough?	If w many to end have wheleas. In front of the Scholaus (	from the sole and rear!	Bow many rouns are cut off to a a portion of light by ad- pending buildings?	flow many rooms are stufferently fighted, in all parts, even in cloudy weather?	How many Scholars have Weak or Sore Lys, or other defect of Vision?	Are all the Dedicting Sente of one Size In (ach round)	HAVE TOO ANY SEMARES TO OFFER AS TO THE MERITS OF	HAVE YOUR SCHOLAES USED GYMNAFICS, IF SO WITH WHAT RESULES	DO SCHOLARS OR TEACHERS SUFFER DEOM HE WARTER, KASSITODE, MER-VOTE DURLITY, NORE BLIED, OR NY OHER MAPENDA WHICH WAY BE AUTHOUTED TO CINCUMSTACTS CONNECTED WITH THE SCHOOL	Frill Both	STHE AVE	OI ONE YOUR
W - Gurlet See Johnson Service	S . and and Roed Streets								l	l												ō ×
. S. S. Pays S. Saley S. L. C.			1 1801	Hot Alr.	Boys		5 263 5 1 3 181 1	Lytremely foul	1 three neverthetion 1	( In some reons it l ( is impossible ) ( Always impure)	=	3	N 00	All	Tw-b-	They are		No scholars are allowed recess.	See is marked.	30- 1	3 280	0 201 1
The string shot	. Sixth, I clow Tasker,	. Mary E. Elsea	1			(a), 10 1a75	1 101 2	the mostly does	Open the windows	Imposide.		1 None 1			Seven Two		No remarks	Linux-butter traces	CTs where and scholars suffer from headache is und nove blood			30 2
1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	. Seventh and Dickins on	Mary Batlett	1 1-71		Girls		5 261 5 3	Both .	Ventriation and sufficient, win-1   Jowshiave to be opened	Imposible	10	from sici			Twenty		to tevery much dit political.	4 room 1	Хоце			50 3
i war by sailing side Land.	. Fifth St., is I. Washington A	s M Ball	2 1813		Boys	9 19, 1875	5 259 5 7	Gets very full	To dows have to be opened Tenanced to open windows	Not always.	2	'Immorance			Nine near sighted		(pleased with them.	No-bate trees				20 1
· Waste Gr. S. day & hole		Ellenor E. Sandgran	2 1842		onle	* 19, 1875	. ess a .	Becomes foul .	Must open the windows	Not in cold weather .	1	J			Six near sighted		They are constortable			55 50		
" N . Page S y S hell	Temple Street, ab. Twelfth		2		Doys	March 11, 1-75	2 101 2 3		No ventilating apparatus, unist     open the windows		Both			14/11	Point boy 6		4 a		Not in consequence of whool atmosphere .		her mon	
* A sile at a, 6 r.s' So and my School,.	. Carpenter, above Ninth	Tallion in March Hills Clinical	2 1871		G5) 1s	9 10, 1875	4 218 4 .	Net II properly contributed	Have to open the window	tremely cold weather	All	, 9	None	331	Sixteen		N	t He's were not beneficial in all the			0 ] 0	4
Westington Fors's contary School	Christian, Lost of second	Mattie Caulb	2 1871		Boys	11, 1875	5 564 5 3		Not by may means necessary to be open windows	I (40		5.4pds		3	Eleven	**	Claim roft's desks are in my school and patter superior to any other	They have not they have be	the selectific		н .	13
The Star Garle Stronger School and a	t inti-tian, Last of Second	Margaret Ritter Kute Ju tus	3 1808		Boys	" 10, 1875	1 173 1		. The windows must be opened	+ By opening the t		I from side		All	Tacht		Not any	They have not				Cl 49 In
Li la ma Giria' Somelaro School,	Catharme, above Tenth	M. A. Field	3 1808		Girls	9 21, 1875	1 201 4	The air become des	ubbent to men the wenters			I side & rear All on side I			Thirty Not any		n	46 45				38 , 11
ti. Union Girls' S. andary S. Innel	Seventh, above Christian	M. T. Green,			Illels		1 200 4 6		Obliged to open the westows	Y.		2	2000		Fourteen		Not do.	There's for ten annuts s—bone of	1 Not from book carry One from our course.			8 60 12
#14 Verm Roys' Secondary School		. M. J. Mooney	. 3		16ys		4 201 4	Ford		Tw : Froms annot	4	-	2 front	1	212		201.00	probability of the state of the	thousaldective staye.  Headache cunsed by pas from stoyes.			o in 13
$\mathcal{V} = \operatorname{Lin}_{\mathcal{S}} \operatorname{gal} (1)\operatorname{Boys'}$ and Girls' $\mathcal{S} + y$ School	Lighth and Fitzwater	. Mary E. Helmhold	4 1891	li li	B. & G.	12,1874		Two rooms get foul		Not always	VII	None	None	AH	Fourtoon		The desks and scate gave satisfaction		Account of the room occupied by the third division.			
26 N. 2 Bysh Carls Sometry School.	L. Twelfth, above Fitzwater .	Mary T. M. Gettigan	4 1868	61	B. & O.	" 8, 1875	4 211 43 -	Not if properly ventilated	Always have be open we dows,	Woran, except red extremely cold		(All from) (2 sides)			Tiurteen		Deslet and scale very comfortable	(They have I think they are)	They do not			7 41 16
17 No. Roys and Girls' Soondary School	of Fifth Street, above German	- Maggie Poste'lu	/ 1874	Steam,	В. № (1,	Feb. 12, 1 75	4 227 4	Neither	It does not. Must have windows open	( We ther. )	None	from ade.			Thirty-seven		18 15 44	Have not	Not not posture cases			56 15 17
18. W. arton Boys S. Sendary School	. third, below Pine	S. litter	. 5 1871	Hot Air.	Boys		1 Ist 1 -		Have to open the window	. I By oping tustos i	All	1			Fourteen	41	Not only	Have not sexon so he the yard,	Yest.	185 (	G 1 70	0.5 08.0 18
To Wester Girls . Solary School .	10 to 10	Annu 15 ppart	. 5 1-71	i.	Girls		4 155 4		u b '	i to the meaning		1			Vighteen	4.0	Seem very condortable	0 6 9	Vot. a	147	05,1 10	0.2 (0.5 10
2   3 s Toron Bay 5 Garls' Sociy School	Sixth, below Pine	Anna Beed,	. 5 1871	"	B. & G.		3 158 3 .		( The windows constitute our only l ( ) within in apparatus [ ] ( ) Here to up a thic windows (No.)	Cannot	3	3			None	64	They are well-suited to the $\sim\! \log n_{\rm bol}$ ,	No-lare no to diffe	No complaint	38	eul - t- '	1 118 20
Z N. E Boys's plany School .	Crown Street, above Bare		6 1561 I		Boys	Feb. 25 & 26, 75		At time sair becomes foul .	t venilators.	No		1 1 sels 1 (18. & li )	2	1	411 n'r aighted, 6 serveyes	All reconses verpt one	They are consortable	They have I professorous	No		1	8 00-40 S
E N E, Girls' Secondary School	Twenty-third, below Pine	· M, G, Mead	0 1861		Girls	March 5, 1875	5 211 5	Neithet	Open windows			All sides	I	1	Twenty-right	They are not	They are old and uncomfortable   been     treuse (burty years)		No special mass			une for 22
24 N. 2 Bays S endary School	Sevents eath and Pine		7 1509		Boys		4 PH 1	Foul	Have trapen the went as	Canbot	2		Non-	4	Three (11 week, 11 sore, d)	In two	Not suitable to scholars in two rooms	Have not	Du not			4 [ 23
2 N. 3 Girls' So on lary School .	Pine and Quance	Mary J. Jackson	. 7 1850	**	Boya Girls			Mostly for dry	Didged to open the windows	No	1	4	Notes	4	pre-craudited i	0	Primary school desks in two rooms too a small for many papels.	No. 1 and to be and	None,		1	5 39 %
X 4 Girls 8 melary School	Nuoteenth and Addison		7 1857	4.		Peb. 19, 1875	3 -12 - 3	The air gets foul.		We can	2	128 &B 1 12 front 1	Note	1 111	Fitty-seven Eighteen	**	a small for many papels.  They are well adapted in their purposes,	To a Built devicat.	Do not know of any years,			0 20 20
to Na S Bay Abare Se'y School-Lold	Ohno Street, als. Twelfth,						13 200 1		. There is no veith dung apparatus	Leannet	Nam	A11		3		Majority of them	There are two primary deslet in two	(They have not hospitalent)	Tenchers and scholars suffer			que tej -7
28 Hallingsworth Roys' Scrondery School	of Leanst, below Lifteenth	Martha J. Hollis	8 1567	-1	linys	9 12, 1875	4 107 47	Both,	Oldiged to open windows	Not on cold days			1	3	Twenty	Yes	The scale me contortable, but single t desks preferable.	No-line a troos	Both scholars and tem hers suffer from foul alr.	65 1	1004, 70	u lan 13
5 H Hingsworth Guls' Secondary School	d 0 0	Lacy Met ullsigh,	8 1867		Gurls	12,1975	a majata	Decidedly foul	. Obliged to open the windows	Insufficient to a por ventulation this winter.	5	2	1	4	Twenty loar	No	They are very comfortable	No	Preparations	565 (	50 50	2 25 29
& Zane Street Do. " & Garls' Sor'y School	d Libert Street, ab. Seventh.	H. D. Alexand	9 1841	**	tinls		3 160 3	Both	, Obliged to open windows	No, except in Froom	1	2	None	All	Sixteen	Except in one room	They suit very well	. Very seldom	Occurl unity	70 5	7.1 77	81 81 8
\$1 Keystone Boys Secondary School	Nine beauth St., ab. Chestina	d, Mary Emma Digar	9 1.69	Steam,	Boys	March 10, 1875	3 241 3	Usually impure, never dry	Open windows	Na	1			1	Fitteen 1	They are	(We have 11 pupils whose leet bursty touch the floor when sitting upright.	Vec-insufficient room	Many children suffer	No 4		meter 42 31
$\langle E\rangle$ No 4 Boys' Secondary School $\ldots$ .	D 0 0 0 0	Mary Ford.,	9 1889		Girls	. 10, 1875		Usually impone		*	1	2		1	Sixteen	**	Chalairen, whose tend do not touch theor   Should be made more contestable	0	Elltown pupils that suffer			H 40 30
23 % y∉ So andary S hos	Cherry Street, ab. Little mili			Hot Vir.	1000			Air becomes foul		Yes, by bowing to the windows. j	2		2	All	9 w. ak, 7 near sighted	*1		Note-have recess	I don't think they suffer			2 20 33
34 N. W. Garls' Secondary School	. Race, below Fitteenth		10 1832			March 15, 1875	5 198 5	Both	Windows are used for ventrinting (No ventilating negratus, depend)	No	None		All	None	Fifteen	4.	We like them very mm h-Bancroft's dest		One bearing surprise			8 61 11
W. N., S.B. sys' So-condary School	Chester and Maple Streets Cherry below Eleventh	Agnes W. McRaith	10 1818		Boys	" 10, 1873 Feb. 26, 1875	3 128 3 · 1 179 4 3	Too dry	(No ventil ting appearants, depend); on doors and windows. )  Have to open the windows	1 wall be obtained i	2	1	None	All	Position		The desks are very old and dilapidated.	No-substitute press	They do not			0 to 35 2 48 36
20 No. 4 Girls' Secondary School	Cherry, below Eleventh New Market Street	R. M. Jackson	10 1871		Girls		5 287 5		(Ventilators not sufficient, obliged t	Only by lowering }	2	2	1		Eleven	To another the same of the sam		(They have been discontinued.	Have heard of home a co	en	30 71	
27 Madison Boys' Secondary School .	New turnet effect	Lon Humphrey	11 1838	11	Boys		5 28 51		( temper windows. (Only verification is by openful) ( windows.	1 Some norms it is !	3		1		Therteen			(for want of room,	Ne minoral completate	121 2		
. S Millin Box. So orphan School	Thard, above Brown	Josephine H. Davis		11			5 157 5 -	It gets foul	Obliged to open window	1 nopreside.   j     3 rooms we cannot	5	1	None	2	Twenty-two	16	Very suitable and comfortable.	Ther have not	. And aware of any suffering	70	78 71	1 12 39
4 Millim Garls' Secondary School	11 H	Martin Joseph	12 1505	b	Girls	Feb. 25, 1875	a 23 b		(No means of ventilating but by I are surg windows if It is very good. Lower the wind down few inches	( Not on extremely )	A11	3	is .	AB.	Twentyesix	**	Have not	They have been discontinued to the word of room.  (Nogymmestics, marchine and t	No musual complaints	115 1		
41 Per natific Secondary School	Noble, below 868th	Mary W. Tradter	12 1811	b	Guls	March 8, 1875	n 500 5		(It is very good, Tower the win- it dows it few mithes	There is taudities to so doing.		None			Smetees		Not large mough for large boys to	(Negymmetics, muchlig and i   hope yard.   LExercise at recess in large!	No coordinate or em red		1	2 51 11
42 Pursua Boy Secondary School		H. C. Meyers	12 1-71	h	Boys	9, 1875	5 201 5 5	Very seldom fort, some t   times too dry	Depend on windows for ventilation :	tienerally do so			2		Thirteen near sighted		) wide with contest	(2mg)	None	77 7		7 34 11
4. Wyoning Girls' Scroulary School	Sixth St, and Lahimoud A)		. 13 1868		titis		10 250 5	Tording	proposed. 1	No, it cannot	1	1	None	1	Twentydinee	**	None	They have egood results,	Have not heard our compliants from fearbase	73 7		
44 Warner Book Soonhary School	Perth Street, ske Povrish	M. E. Byrnes,	14 1851 13 1854	11	Boys	2,1875	1 217 4 6 130 3 s		No. The windows are kept open .  Otten have the windows onen	Yes	4	1	2	2	Pour		papal+	\	Course was standard to combination from peneticis		.".  "	95 15
45 U.Q. Adams Boy 28 Conday School	is other St., bell Buttonwood	d Mary E. Willalmon .	13 1951	Į.	Boys	2, 1876 2 L 1874		Neither  Very comfortable	Windows are bowered		3 None	1 1	2	Both	NIX.		Very comfortable					28 10
4 J. Q. Adams Gir Secondary School  47 Hamoric Boys' Secondary School	- Farmount Ave. als Twilt		11 1863	41	Boxs		5 216 5		- Oldred to open windows	Very seldom	+ 1 front 1	4 - ide	2	4	Six non sighted	н	( Wa have Utilinger and Bancroft desks, ) the former wear letter	(They have, with no perception like results.)	Both-meadondly	KI 16	an no	128 17
47 Hate och Boys' Secondary School .  48 Margor Boys' Secondary School .	Wood Street, above klevent		11 1873	I+	Box	s 1875		In rooms the or gets look		3 repuis ars 2 cannot	( 1 to at )	Steam	None	All		14	CHARLEST TO THE CONTRACT OF T	Days no space for gymnostics				18
43 Monta tark Scientific School.	n 6 H	F. A. Boop	11 1872	le	thris	e 4,1873	ч 156 4	Very foul	S Ventilating apparatus not suffi-1	No.	2				(15 near sighted, 4 sen.) (eyes,		Are well adapted to the pupil's use	Only a short time since	None afterful throwns described	60 0		10 19
E. B. T. c. until Girls' Secondary School	d Melon, nboyo Twolith	Ellen S. kneer .	11 1867		Hirls	" 1, 1875	7 340 7	Too dry	We open both doors and windows 1 Nover.	Not in the coldest     We other:	( 2 front ) ( 2 front )	3	*1		Forty-seven		(Seals too narrow, deske too low, and straight.	Hove no room,	Vector of the free head action and more bleed than 1			61 50
\$1 Thirddens Stevens Boys' Sor's School		Cumm Allen	. Do 1871	li li	Hors	* 11,1875		Most rooms got fortland dry	Open windows	Never,	None	4			( near sighted, 361 ( neak eyes	**	Are great improvement on old style -   comfortable.	Not of any account	Part of the forchess and number of the       part of the forchess and number of the			ne ter - 51.
\$2 Livingston Boys' Secondary School .	, 2 of St, ab, Callowhill	M.J. Mustlu	lo 1872	'	Boys	n In, 1875	5 295 5		. Always open windows	1 Not purely, by t	4	12 F. & S. )	-	2	Fifteen (10 near sighted, 10)		They give satisfaction	(classicapie).	They often complain  No-only from the intent a close room.	66 71 68 6		50 63
$-$ 53 - Lincoln Girls's condary School. $\pi$	Fidemonia Av. A 20th St.,	M. L. Potter	. 15 1862		tin)-			Very foul and dry	. We are obliged to open windows	Some 100ms cannot	in hont i	3	None	3	( weath eyes 1	14	(briger ones for the burge one	No system has been taught (Yes, they have used them but I	Thirty wholast	101 to		48 14
74 Bache Glrly' Secondary School	Twenty-second and Brown	B. E. Knight	15   1868   15   1868		Olitha	March 12 1875	4 169 1		Open the windows	Cannot	4	. 4		All	Twenty scholars		They answer the purpose	[ seldom ]	No	69 70		50 05
25 Boffman Gir e' Secondary School	. Seventeenth and Wood Broundywine St., ale Ellies i		. 15 1868		thirts	440.00 (20, 1.4.5)	5 131	t i i i i i i i i i i i i i i i i i i i	No. of the state o	(they by opening to the windows. )	1	1		Not e	Seven scholars Seven scholars	No.		No				50
7. 7. Tarber Summer Secondary School 7. Tarbel of Seger Boys' Secondary School		L A linguid	16 1868		Boys	26, 1873		Fond	Universities are pt the windows  Ventilation in sufficient	Carnot no 3d worth.	1	None	Both	1	Four	They ste		No	Both water	59 5		17 67
Landenberger Glris' Secondary Scho		Buchel Briggs	. 10 1868	- 41	Clips		6   277   6			Cannot always	3.	3 8 A 8 R.		AB	About 1-17 Proffected	u	Dest-cure double heald be single and   higher for health of the children	Have recor	Teachers and a holm souther from headache			nector fell
7 Harrison Boys' Secondary School		Lillie Streeper	17 1832	41	Boys	" 12, 1875	5 278 5	Very foul .	We have to open windows for all the an we get.	Not always	.5	48 A 3 B			Deven	**	Lacabl III a the scale to be stationary	No	I think so			45 59
Harrison Girls Secondary School	n ( n	S Sherry	17 1832	10	Ghls	" 12, 1875	5 950 5	Neither	. No ventilators Open the windows			9		1 11	1.6 weak eyes, 2 near     sighted.	$\Lambda\Pi$ but one room	Those last Introduced were much more convenient than Uhlinger's.	tic astomity beneficial results,	Restraines	65   10	14 71	45 10
																	-					

<sup>\*</sup>Let Sect. Each room has two windows in from of scholars.

\*Let Sect. In some rooms the impossible to keep the nir pure well-united proves distributed to both teachers and scholars.

\*Let Sect. In some rooms the impossible to keep the nir pure well-united proves distributed to both teachers and scholars.

\*Sect Sect. In some rooms the impossible to keep the nir pure well-united proves distributed to both teachers and scholars.

\*Sect Sect. In some rooms the impossible to keep the nir pure well-united proves distributed to both teachers and scholars.

\*Sect Sect. In some room offending impossible to keep the nir pure well-united proves distributed to cold taken by inspect of the interval of the sect. The sect. One room offending impossible to keep the nir pure well-united proves distributed to cold taken by inspect of the interval of t



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u, by any meer tolerably pur	OR TEACHERS SUFFER DACHE, LASSITUDE, NER-LITY, NOSE BLEED, OR R AFFECTIONS WHICH TTRIBUTED TO CIRCUM-CONNECTED WITH THE	TEN OR	IPERA!	E AVER FURECT OF YOURS?	ONE	AUXBEES,
	ulge	70 · No	70° Ther	72°	50) ter	62
		'	"	66		63



### SECONDARY SCHOOLS. Continued.

SCHOOL HOUSES.

01

1 - the Ventilatio, Apparatus Les enough to she Air, or . . West r Str

THOM HEADACHE, LASSITUDE, NER JAV 1 1 8 St HOLV YOU'S DEBILITY, NOSE BLEFT, OR VAN OTHER ARTECHORS WHICH

to SCHOLARS OR TEACHERS SUI PER

WHAT IS THE AVERAGE DR MODE OF YOUR

MAY BE VITRIBUTED to CIRCUM-HI TINKS AND STATE NAME. LOCATION. 18 1-72 Hot air. B. & G. March 10, 1975 - 1 - 2. N. Ther mome for 1.12 Allen St. 1-1 Sharkamerxon Margie J. Choate Here is not the operated Cumor the isomethy they do White do All dis 1541 Not aware of any Is Collin Rord Have not I B At G Perfectly satisficants 82 61 85 5 26 124 Anno L. Pipe No. They mome ter-B. D. Herman I No. however extra I do not know of any They are I Have be some a libert, but not I I do not think we be They vary in st Mantua Boys' and Girls' See'y School - Haverford Rd., ab., 35th St. - M. A. Almond the make opening to remelows.

To recally, unless 41 1865 Two hearts is and forty scholars suited 21 1851 | " Nothing to complete of No mot suffich ut room Both Both ( Ratetic windows ) Two street 60 61 71 32 39 They becomenfly emphilia Pattworkship and Race is 58 45 38 300 1 the backer offer with headacke, echolor 2 1 frequently either with no. block 1 they and recordingly from colds, Accompli-1 in hoof J 68 60 60 22 BG 60 07 04 104 26 1548 60 60 72 24 105 po 25 , 10 20 106 H. F. Whittington . 1 64 60 70 12 109 the demand of observing healths condition 60 50 24 98 111 No. Ther mome for 112 J. Henderson They are too ourrow in the or our straight in the lack.
They become a rule become (We safter very much from gos escaping from) 51 61 62 62 25 114  $2.8 \ \& Y$ W. have two sizes Windows must always be open by country Novemblators. 240.35 B & G. Teb 11, 187 -11 65 68 73 73 43 117 1167 Galedale Boys' and Girls Serv School | Broad & Township Lane Rd ... Many A. Striv G 1-Yes: from he diche, hesdinde and nose bleed ... 50 52 68 25 118 2177 Diamond St. Roys' v Girl - See'y School Diamond and Caime We are obliged to open the windows. No  $\gamma$ 11st Reynolds bark' Secondary School ... Lie knowth and Cabet ...... A. R. Thoma

119 Gratz Boys' Secondary School . ... . I womy-fluid and Jefferson. L. Stall

12" Gratz Carls' Secondary School

79 1871

29 1871

(Vontibiling apparatus not suffict Not in cold days count, open the docus,

Ventilators sufficient......

Books at trabes for the sack

7423th Sect. The school is at present loacated in a private house, never intended

for school purposes. Thermometer on Monday, February 8th, stool at 45° for threa hours, and it was impossible to get any more heat in the room. Out-door tem-

64 66 75 14 120

<sup>226</sup>th Sect. We cannot keep the air pure by any means. As to nearmth, owing come just near enough freezing to not actually perish, but would be left for the stands in the centre of a large common which has a clay soil. For six months of 20th Sect. We cannot keep the air pore by any means. As to nearenth, owing to the situation of doors and windows, water in the cellur, and it variety of other reasons; while part of the scholars are almost "cronated" the other's common which has a clay soil. For as menths of verse, asson, while part of the scholars are almost "cronated" the other's common diring the host water.

22d Sect. To look at them you would think they were a donation from the factor, I would sense of pleving hum on the last form of the third division of Without Street Beys' Secondary School. There is moved, and feel of the winter and division of Without Street Beys' Secondary School. There is moved, and feel of the school of the scho

<sup>\* 20</sup>th S . The building is not provided with a ventilating apparatus, therefore windows and coors must be opened. In some case, the current of open air from open windows is directly upon the backs of teacher or pupil. An attempt at ventilation has been node in two rooms by making hole in the ceiling. In another than or points of cold feet are numerous by reason of cracks between the hours and not said to cold feet are numerous by reason of cracks between the hours and not said to cold feet are numerous by reason of cracks between



# ATE

#### nost of the bu

us ir,	y means, keep tolerably pure enough?	olars or Teachers suffer Headache, Lassitude, ous Debility, or Nose	TEM OR	IS THE PERATU: MORE O OOL-ROO!	REOF 0	NE	
lie	Can you, by any means, the Air always tolerably as well as warm enough?	d, or other affections— h may be attributed reumstances connected the School?	I ft. from floor	4 ft. from floor	7 ft. from floor	Outside.	NUMBERS.
	Yes		700	760	820	47°	1
en !	Impossible	r at times with headache	47	58	68	40	3
	Can in one room		60	68	72	12	4
	(Yes; by opening the windows.	er suffers somewhat	70	7:3	75	74	5
	No	ly	72	73	76	26	G
	"	stant suffers constantly from (	65 .				7
en !	16						8
)	Yes		70	72	73	70	9
lows.		e ed by gas from worn-out heaters				48	10
1		generally complain	58	6014	62	26	11
			58	62	70	32	12
the)	***************************************	···lly	011				13
)	We can	•••					14
			********				15
		-not affected					
	Not by any means	y	48	53	56	8	16
	Yes	itting near the stove suffer) above complaints.	52	GG	7.2	20	1'
	(Yes; in moderate weather.	sionally suffer	52	59	69	20	1
	We can	the teachers occasionally)	60	65	68	11	1
	Yes	···ses of headache	62	64	69	25	2
	No		62	65	70	40	2
	Yes	по саве	70	74	77	55	. 2
idows	No	om they complain	. 48	55	62	6	- 2
46	"	er during the winter months		58	62	28	2
		aint	. 70	691/2	68	40-41	2
		yplain	. 61	66	71	34	:
		plain—cause by bad ventilatio	1	70	71	27	
		mently	68	73	75	58	1

its support upon one wood work protected with tin, since which time ters were built in the est that the building inpector visit the building ive times during the flould occur I at least will not be held responsible...



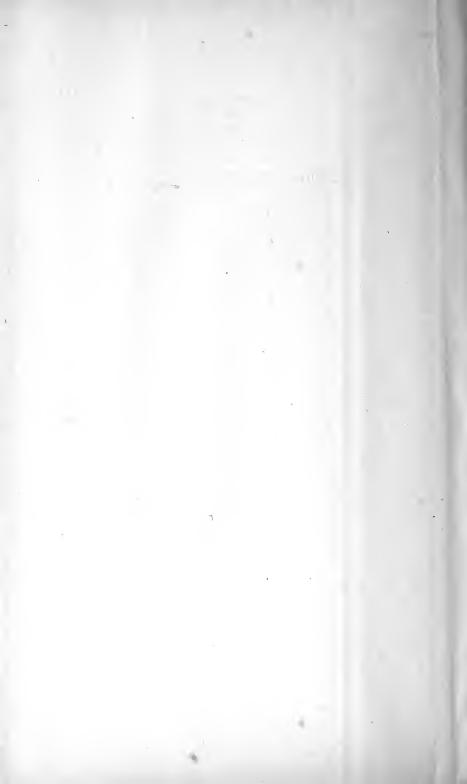
## CONSOLIDATED SCHOOLS.

All but one of these Schools are located in the rural portions of the City; most of the buildings are very old, and correspondingly deficient in modern school appliances.

				-														
SCHOOL H	OUSES.	NAMES  OF  INCIPALS  F	Worn Bruth How Heyer B.	SHV to B'thought	Peri or welve Briogr	Number of Scholar Number of Scholar Number of Teathers	Pors (H), A), G), Tools (H), G), Tools (H), A), G), Tools (H), G), Tools (H), G), G), Tools (H), G), Tools (H), G), Tools (H), G), Tools (H), G),	give you enough Fresh Au,	any mes ys federa m croup,	If w many restuctive reduc-	How miny counts or lighted tron side and is er.	If w many rooms are out off from a portion of light to to rung buildings!	How many rooms to entitlements hallook over an enty verifier	They be not Scholars as I shown to you and other Teachers with barse with the second section that the desired section of their desired section of the section of the second section of the	Les and Donke and south of	HAVE AND ANY DIMARKS TO HAVE AND SCHOOLARS OF THE MERIT OF THE DEPARTMENT THE STREET OF WHAVE RESULTS.	Norvous Debility, or Nesa Bleed, or other affections, which may be attributed to encumstances, connected with the School.	THE REPORT OF STATE O
- Roberts Vaux,-Coloredia	Bundalph Street, ale Parach' J. C. V	White 12		B 5 C.	Was In 10, 187 c.	12 - 26" - 4	f Foul	No necessary bropen wandows	1		None.			NI.	1.	Complete an of three kinds Dillinger 1	V.,	
1 Basharough	<ul> <li>Rides Av., ab. 7th Mile Stone J. M.</li> </ul>	Minima 41	1871		0. 9,1877	8 24 4	1. Office care food	Office so ventilating approaches a se-	Dure dde .	.1	1 from ad-	N 100	4	Name	ν.	(Butchinson, and Burerott ) None at the Array and	that we want to the same of th	700 700 820 170 4
4 1000002	e e e e e e	Horst-hea "1			Leb 15, 1875	16 7 8 7	1. Both, especially the forme	(the windows,	Cur to che room					Thurteen	\.	CHICLERO no destrable deske or core t	Both sufficial than exith hendaches  They do	17 as as in 3
Che-tant Hill	Hi shhand Av., Chestum 1886, 2, 3, 3,	Marjachini . 22	1871		March 20, 1875	11 279	A terrole	Sound mechanic to open a undows	OAs To opening t	Stront Look		N 11		Stv	They are a	Chethe cheek	On teacher-order one-what, .	din ds 72 12 1
6 Mr Aus	Allens Lune, Mr. May . Thomas	n G. Genfre, 12	1872					Compelled to spen the windows	(The stradows, )	111	No.			Two	4 Southern Joneson		Occasionely	70 11 75 71 A
T Frinklin	, Chardi Strict, Germanlown - M. Ada	r Rodd		1	5 29 187 (	4 372 1		Have no ventil thus		1					On other Deaths	1. Otherwoods to be a first for the Companies with bounding	1) 13 h the blant litters constantly from	77 78 70 70 10
8 Lilwoon	ted Lane near York Bond - 1 pope	L. Marion			0.187	2 110 2	- Veryful	Office windows.						awada, Lucir Chard		Floran worn out they have not	A Throughole.  Something a control of comments of	
9 riles -	Olney Edgab Second Street, J. W.	Ph. h	1850	. "			2 No		1	Non	AH		AH	on or a little .	`	Characters are very self-telementary No. 100 cm.		70 72 73 70 9
10 Cchimber	Washington H., Holmosburg, R. C.,					16 207 6	b. Vers Loquently	. No me insert verifilation except weadow	Not in solid weather		1			110	The section of	The deck are old and on out it?	Ye can addy pay from your out heater	Danier . 18 + 10
H Parette	Bustleton June	W. Burdin 2	1851		100 22	16 277 1	! At times Loth	No, we gen windows	Westmon	111	None		AB	Care 2 - Join Childs		They are old to blomed and plan	They both concidly complained and	es 101 og 36 11
12 Holms	College ville A. M. I	Poses 11	18 (4		1 14,1	$20 = 136 = 2 \circ$	- Tropically foul	Obligation perconnion .			\11			Hijs		They are Ohlinger's parint and serviced. They have	there topicly	
1 Mont somers	Lox Cluse John	K. Strone	18 0 3		March 9, 1-7	10-12-2	2. It does not true and a	the does not be less to twee the awarders	We on	P. th	Ports		Potio	Lor In a child		Aporthorof the dest over a balance personal multiplication of the providing the state of the sta	Vota tow	ta
H   Wichington	Milliown Roud P. L.	National "1	ISS S		10 1573	$\delta = -1 + -1$	1. Balos and	Lower wind we access willy		the sta	extiniting with	tir an teom a	o each i	One	They are two size	Adding of a despert 18d	They do not	b
Tr. Wheat Sheet no. = 100000	or Turtleton Pike David	D 8 out 23	INT					We open the windows	No.		Both it alex	None	Both	Chemical Inc.	They in	Olley a controlled is talk vinter! We have now from	, They are not allocated to the same	15
P. Barrick He na	, Somerhou	h J. Battimon	1817		1, 1-7 :	105 1	1 Both	1 No ventilator sopon windows	Not by my mems	1				One	` .	Defined out or indiffer up a Note or check country	- Chequenth	. In tal (a) 8 16
37 Ben mitte Buch	Creson Corner, Uyberry Edwin	nl Nixilli	1.47		Feb. 15, 3-75	5 Do 1	1 Neither	We open the warnow	Yes							** (We have old to him at sh. ) while we	Pupils thin went the days online a south the ideas compliants.	let 66 72 20 17
1 Hours W. Diffine :	State Bond Tacony T. W.	Wortell	1.1 0.		1, 1877	9 165 3	- Foul	. So ventilator open windows	<ul> <li>(A) so no moderate a raye after</li> </ul>	Little			Parts.			(We be Bounds' delt and art they have not applied with them.	Both contourtly offer	, 50° 50° 60° 50° 14°
> B so .	Citiz-foneth & Lancii der Av., James	W. Kenton (1911)			1 174	12-294=6	6. It does not	Windows are always lowered.	Weekly	None	1		All	Te a	They see	They are initials - No	Course of the backer occidenally propagately	00 05 08 11 19
r leve	trans. Street, Bible bury J. Luc	ory Byrani	1 17		Washington	10 568 9	9 Foot o	No ventificiore nei windo i s	Yes					Three 6		Good as plan billional as the Distribution. Not in the distribution	Liverity is a set hundredus	62 61 60 25 20
A Richalph	Saction . C.M.	Pollados 25				9 50 9 9	For the second second	. Have none	No. 1					Four	Ye		No	62 65 70 10 21
- Boyard Taylor	Turner Street als Asimuso 12 to 1	boot a new to	1369	4.5	22, 1573	17 101 7	A Committee of the Comm	Open windows	Yes	AH	\11			e no se a lanct		Normania de la Compania del Compania de la Compania del Compania de la Compania d	Home of notice and a second	. 70 71 75 56 22
. Bout the -	Passyank Rik and Seventh Walso	n Corn II	1850		15dc 10, 1575	0 166	1. Generally ampure	No no in it would be except by which	- No	1	1			Nom	No .	Not and Harrington.	In one topic they complain	. DE 55 62 6 23
2. Decision	, $-c_{\rm in}$ -South and Pean $-\ldots, -c_{\rm in}$ W	Pline 5	1817	Part v	0.12,187)	11 196 .	Becomes foul			Non.	LAH none i		Both	I work I near a mod-	Y	They are easy life and a manner of a boundfelal is all	They miller during the whiter months	. 62 68 62 28 21
	s s « , Jenns	P Simpson "1	1.47	Girl-	Moreh 11, 1875	3 10 3	1. Itm	We must provide as a second	Importab				3.0	5.3.11		They are all before as a	So complified	70 691 , 88 -40 44 25
1 Fact	Schnythall Ball	nos Willard 2	18 (0)	B & G.	0 00 1875	21 631 12	U. Fort		We can be notally		1			The A.L.	They are	Not more amore and an arrangement of the second of the sec	hoth couplidin	pl   n0   71   34   26
27 Glernwood	Rules Ave, and Thirty-third, W. G.	Hottl 28	18.6	1.1	6 12, 1875	11 207 4	4 decasionally		No		VII		VII	Social to occupied.		(Miss Chilheer dels think order) Seratedi	Both complain course by bud ventiliation	u 60 70 71 27 27
- house that	Titteenth Street, bel, Taggr., Charle	s II Bir Island 28	1861	**	April 6, 187 c	1) 210 0	To some extent	<ul> <li>(A) utilate, does not answer the pur- er sec. Open windows.</li> </ul>	Not very william		4			Lyn	No intereson		to Unite frequently	68 73 75 68 28
	-																	

25th Streetors. The Irving School-building was creeded in 1847, Bridesburg at that time being a part of the Eleventh School ton. The original building has been altered from time to ment the in reasing wants of the community, until but shelp wither inside or outside remain of its original arrangements. The first floor of the main building is block-up on the edge of the running to the three room on the second floor. Even times during the first two years of my principally the room, were headed in menus of stove; about eight years again we header were build in the number building and the walls on our recognishing the first two years of my principally all however in a latter of the community of the community of the community of the number of the number of the number of the strength of the number of the community of the number of the nu

while the chool was necession. The third year certain this work although and the wood work protected with tin, since which time there has been in a transfer. These recent are still heart divided are. I would respect that the building imposite visit the buildings all that he makes in divided report to some homeon of belong that the are divided been fail the still will not be held expandible.







### PRIMARY SCHOOLS.

SCHOOL HO	HSES,	NAME: of PRINCIPALS	110N. 10N PUTT,	w Hiver	A OF Schole	teeef makeng Bepe	and reflection	mel i Kilin needlat Stone	701( - 1 ( <b>L</b> ))	The control of the co	or is a record to pile or clear the pile or clear the colds pure me the section or or five.	is many), one has wireless to an of the selection?	on the pleasal rest?	ew many toward graverity off- our a porterior of light by aid- sing benefiting.	Altri delli permente e e e e e e e e e e e e e e e e e e	R		Hv <sub>1</sub> vvv A	HAV. MOTALS STREET OF WHITE ELECTRICAL	Iso Service and thorse suffer you, He danche, Lussitude, Xervon, Belady, or Xone Bleed, or any other after thous which may be attended to curemost meet own that with the school?		OF YOUR
												= =									= 4	N Sugar
A No. 2 Co. Princip No. 1	Two riter street, down Recol		1 1852 1 1 12			Maga Is 10, 1-75	1 22 3			All a of the end of artifate	Inqet l We cause to	4 All.	4 VII	Non-	AII	resulting 4 - 11	1		We take the state of the state	Many shells and all the rights suffer	65 (9	70 - 42 - 1
M ~ 1 + N 4 N 4	Morre Street below a cends		1 1-67		Basi	170, 12, 1877			folio-typ -	We have a long to the state of the control of the state o	No. 1 pm	4	1 to affized for 1 for 1	2		Torrespond		Delicit — emiriles e	`	Sull rational data at	12 01 10 1	67 66 21 j 3
5 ToS Primay N 5 5	Corner of Ninth on Literature	Pillen C. Steele	1 1967		Buy					the variation of the va	United to the With cars and	All	VII	N m	A11	Non-in-teller		Not as		Serionally	11	1 .0 4
7 Tolly Primary N. 7	Sixth Short help Tasker.		1 1567		Gula	12, 1873			ometrices becomen that the	Occasionally a sindo-	Cannot .					who ware attached time of a fine a sight of		Xon	No hay not on	Nt that Union of Distribute		70 22 7
	Teath ast sayder	B. Alice Freed by	1 1-78		Box	March 2, 1975			Bronn Luff	Plan cuttonentin of the						Tw Iv	Thy in the turn to the first division in the		A few monoculous contrastilla.	V fidule not	15 1	09 j lin 8
* * * 1 P. F. frag + N. To	so and so a Hood	B. A. Holb	1 1572			Mark 1975		1 1 :		report the research at the research and selected at the research at the resear	Sec.	1	tis in sub-		( H is not ) sollie in ( historia )	T on Note			The Committee of the Co	Promise chelicous cloudly Non-		16 (0 10
1	THE South's venillation of a Lifth St. Toko, Washington		1	11	Hoy 15 a	10 15 15				We have to open wandows	costs has an arms of		1 None	1 None	All	Two new reachts I		low also		Ultrade more	100	3 39 <b>11</b>
S. W. N. Line of Primary No. 2	Capent of the final with	L. A. Byan	1 1 09	64	Boss	May 6.1 (1873)	3 .0 -	l 1								To b		Poynter line has a		Dier in the		10 No 11
Primar No P. Witson Primary No. 1	Tilth St. below Wir him ton Mirry Street, below a cond-,		2 [860]			March H <sub>2</sub> L 7 c				Baye none, open vandove Balor - mart open vandove	Y Lean	AD.	1 M Iron 1 1 H H			The This must stable I		Situation of the situat		10disk na 31 x denet		15
7 No. 1	Corporates Stor I, at Nintha		2 ± 1860 2 = 1861			10 (0.13)			to objection	Compelled to open windows	We an		1 ",			1 tomores also december	11	None Discourse record and t	X colors of a substitution of the substitution	Luchers wife from he slach.		
B 217		Mary C. Reiter	2 1 71		Boys	1.171.74	1	1 1	Postne of all	We have to lewer the window		All	r in the r	1		Lyncapsight dalay did page	**	A 18 - 101 (1-1)	execution to 1			17
1 × 1 × 1 × 1 × 1 × 1 × 1 × 1 × 1 × 1 ×	Temple Street of Twellfing				barts bays	No. 5 1 15				Programs, window and deal of the construction of the construction	Not in winter				Both All		No Ye	Between the Common Time	at a state of	Ass.  Without supplement he obachs.		bi
_1 Whart or Primary	Puth St., below Washington	Arma Bill	4 1912	14	Boya	prin 1 v 1 ***	1 202	1 1	Both .	the tool a windows	Connet		1			1 wed 4 non-clated Sevens half		Note  In section 1 = 0.01 = 0.00 at 0.00 to 1.00	No. Comme	Theodonal	ak # ;	ot 21 21
2 Primary No. 11 2 District Primary No. 1	Cariethau Street, ab. Front .		3 1868	'	Boy					Wine's we have to be pointed .						5.00		1				14 15 14
24 No. 2 g5 Mt Vernen Primary N. 3	Collination Street, als, Thirds.		3 1868			March 11, 187 v Letc 2 v, 1, 75	1 1.26	1 1	bout .	Windows must be opened	The option versity and districts  We can	A11 4	1   side \		Att	Twenty one Two		Destruction for the form  [Acres profity under the food the the distance of the selection.]	Have not we have a const-	No. 1		70.11 10 24
2	Consider State I, all, Thinks		1 1171	15	Blate	March 21, 1875	5 119	a ja	Neither .	Transmission	Always Acro difficult to t					Two				J	10	
<u>s</u>	"Is thought that then streets." That then "Treet, but sixth					9 12, 1-7 x \$ (1-12, 187)				Have none except windows	(Website Collection of the Col	711		N no	AH	Four next stabled.		They out very v. P.	S. C.L. e. Levi., 1100.	Mea form charge or les Steparlenbals		29
2) Tyons Princes N. 7	Collection through the Teath	L. H. Win low	a 1 5t		Boys	March 41 by	1 2.0	1 1	Not if properly vental ( )	constanted we perwrites	With one coupling	1	A Maria and a second of the se			As p. Janua (2h) I. Chaosh "sore and 2) Incursialityd		Not any Nothing		Note that a state of the state		07 11 20 08   14 30
at Union Primary N 1	coughts below Catherin		- P5I		tank	* * 13	1 150	6 )	Not if attend to vertible in Foul, curred by or use i	Windows and doors open is larly .	at with Disease in	All				The marketshirt		Ulding it is a switched to	A Total Nation	They do not	H 70	Ye to 31
ag - Ral Car Primary No. 1	Fullbook and Baltibook	H. McCully Mid V. A. Byene	1 1867		Best	Transleb by: The Colors of Harom Models Lebe Welt (2)	1 1 1	1 4	Both, Sometimes dev	Hala e not	the wind was printed.  We can obvious		CMI need (all need)	1		Six near related		They in could deal	The first of the second	Hara of never		61 361 32 61 39 33
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*1st Sect. We have no trouble aniort at times. The building i asys we are not troubled much wi	with the purity of the a s open on all sides to the ith the heat. I cannot to	ir, it being too pune for winds, and on winds all whother the heating	y 11-	st S et. W	th re-	on the top of the	s that is a distant	a very	grad objection. The the state court be pla	Bet Very Charts	and Bird too south	building	f H .hag-	worth Sch	ol   ·	elidad zogan 1.2pm nord 1. norden nye	y dr. Lander 13 days our to	gradus gradus de la fronte, basera	aged momet rive at	I saif fest from the floor.		



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# PRIMARY SCHOOLS .- Continued.

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75 Royanid Primary No. 3	ullwyn and Callowhill Sis dana Street, below Pillhoo	f. Hogan,	. 12 1805						Oblig discoperation whileses	Y =	All	All sides	i		Fors	1		As withoutany apparent brands	Both from he whele	Ter: 720 751 1020 77
7: * * No. 4	11 11 11	Ella Coatre	. 12 1×68		tinls -		3 10 a	4 Sometimes tent 1 Dry	We open the windows	Mostly		1	2 None	S ARM	popul- t - ny Malaysion, one t		Would be better if the less us to more planted and the top and test is its let	They have not ,	throng heads he and nervous debility, by training of the cost survey debility.	W
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Q 0 0 0 No.5	e e e s Guiden 81, 1-1 Buttimes and	1 S Morris	12 1571		only .		3 - 112 - 1		Necessary to open the windows,	Ye		Non-		VII	Sta		Well adapted to a  Sumptorem into the accept	14 of swelden impossible to I (18 of swelden impossible to I	Entropient occurrence	
SL, J. Q. Athans Primers No. 1		A B Barring	15 1834 13 1831				4 100 1	4 Brooms tool	No. I lower the windows  thing of to open the windows	Yes Of me by keeping t	None		1	All	Six Lamora sighted		Counterfully with Lock	No	Only with he do by	71
	Profit Street above Pourch	Mary A. Jellines J. B. Jackson	11 1857		Boys Fol		1 jso a		Not by any means, open all the wandows		1	,			Miss		Volume 1		Number suffer from headache	00 05 72 07 84 71 70 78 76 86
	Wood Street, ab. Deventh		11 1865		GHIs No	note 9, 1+75	3 2m 1	I Norther : 1	Ventilators no necessary, we opin wandows	(Cannot me odd) (weather, )	A11 A	H trom side Should be in	Non	71)	Pice Lis	No.	Twitdly) for hive new disk	Cilisticas as cards	Have no complaints	74 76 78 76 96
	Twellth and Wister Streets Wood Street, ale Eleventh		H 1854	15	Boys		4 100 4		We open windows by weightness	No	2	1			a to the right of			No.	h	' tol 107   701   30   84
90 Prinnery No. 1	Twelfih Street, show Bresch		11 1851	u	Boys	9 9 157	1 1% 4	1 B rb		Aback froms J	1	A lactor of	) n		non a latest lowerd.  Latest A	Except in Athoris Archive two sices	Peck som ultratorthe hildren . The deck size orderethical or ditting on the end connect or Director with	Not be one extent.  And but have not some common	Noticion veneno	69 70 70 32 30
of Robert T Control Primary No. 6	Motion Street, held (welltin	Margaret Publi	14 1851 - 11 1867		Gads Gads		1 107 1 1 201 6		There is ventilating appropriate and participants windows.	Yes(min decree)	Non	1		Sen	7 with our defect	14	Very sode Philip of make a con-	(Ars, but without once one typing to the want of space	Both softer from headache and debility	
	Twelith Street, above Brown		. 11 1511		Boys		1 100 1		Compells I to open windows and deors :  No ventilators : obliged to open windows	Washing 1	1		1	311	and usushind Annu Ishird A	They are	Comfortable adapted to the of children Agra week a hillness Semida	No, have not got the more	Ne	29 81 07 18 18 28 86 29 70 10
*	Twelth and Wests Twenty-third, de Callowhill	E Middleton	14 1854 16 1872		Boy-	" 12, 1875 " 10, 187+	2 93 2 0 241 1	2 "	No, open the windows stall times in Open the windows	X0	2		1		Ten	Yes.		Have not a	Both very much	
90 0 0 No 2			15 1872		Guis	" 11, 1875	5 180 6	5 Both	Acty off it open the wandows and doors	Generally	1		1	311	Sasteen	They are	No. Phys. Rev. 10 to Hon.	Depot use them	Towhere all suffer from the first three  Hoth often complain of headache	
Primary No. 3	Nucleonth and North 80s. Twenty-second and Brown		15 1868		Boys Boxa	" 12, 1876 " 1, 1876		1 No, when the window- ture lowered	butout ventilate without windows .	Yes,	1	Non-	"		Six United State		A bar er de he bethe birber districte t	They have not as a second	Not that I longwol	97
90 No. 5	at 10 6	E Martin	15 1 1568	61	Girls	5, 187 (	6 315 6	6 Both	. It does not, have to open windows	No				ΔH	Nine		t would be be to tapp	Yery soldon	Frequent complaints (22) caba he	of 161 168 39 189
Ing Thoddens Stevens Primary No. 5 lot " " 6 No. 7	17th Stante Fatemental Ave	May J. Curl	15 1874		Boy- Gul-	* 0, 1875 * 11, 1875	5 270 5	h Fort	to to to	According to	None		2 None		anou sighted		They are comfortable	Yes, Javoralde result ,	Know of moreover	
102 Primary No +	Nine teenth and North 8t	N. W. Lowrence	D	*	Ghls	* 12 1875	1.18 0	Both	6 P P	Yes			-1		4 m m sighted	41	None	No as dens has been four lit	No	in ,n nz pn 104
103   Hollman Primary No. 9	Seventi enthand Wood Sts.	M. L. Thompson	15 1868 . 15 1868	**	Buys		3 120 3 3 118 3		Obliged to open windows (10.1%) not work at all, have to open!	We can generally	1	Some	. 14	IL. Isse)	From near radiol, 2.1 Follor delects, 1	V . v .	Might be improved	Ye wo pare eptible vesult. Ye:	To quently in the alternoon!  Acc, in the alternoon.	10 72 14 508 1083 1014
195 - Jefferson Prinnity No. 1	Lifth Street, above Poplar	Mary Renot	16 1-18		ная	" 11, 1876	e 100s i	A Very foul in some rooms to their funds	Windows have to be opened	( tindy by Lowering 1 ) ( the windows )	I		(-)	MI VIII	(Two blind mone exc.) [section of sighted, ]	44	Note are roughtlable at the disket   Down shell to marion	They have, unforomble results		105 71 177 41 100
106 Grorge Wolft Primory No. 2 107 0 0 No. 2	Planfotte St., ishare Poplar, to a so o		16 1848 16 1848		R.A.G.			i bool	Dependentially on windows	Weather	A II				Ten Twenty Buen	66	TThey are well adapted to the combat t	<sup>1</sup> You amount of the North State of the North Stat	Both oft wastler trops headache	101 to 50 go 107
108 - William A. Lo, Primory No. 4	Howard St., bel-Ginerd Av-		16 1861		Boys		4 , 193 4		Venidated by the windows	Not always	1		Nona		Due sore eves, and D most subtook (Fb ven mor sighhol, )	11	Fol the scholare		и и	108
100 0 0 No 0	27 MF		. 16 1861 . 16 1861		tails BAG		4 gus 4 5 ggs 5		4		1	ī	None		11 orespes 1 2 non-sighted	16			Both complete at times	110
111 Welster Primary No. 1.	Himon k 81 , ab, 6 hard Avi		. 17 1858 17 1858		Boys Ghl-	" 8, 1876 " 11, 1875	1 186 1	1 Neither	It does not, we open the windows	Yes	All	VII			4 mean slightful mean slightful	H +	Not any	No	Not aus.	88 70 72 to lit
11.1 Maril on Primary No. 2	Master Street, above Scrote	Mary & Dell's L. Jerman P. Malioney	17 1832		Hogs.		1 521 1		No ventibiling appearable topon vandows		4		1	41	I wents four	44		No, have not store his pro-	Net to my knowledge	81 60 80
111 " No. 1	Market and Later not St.		17 1852	14	Guds Beys	1 - 185 -	4 226 4		Have be open want was	We connot.	A11	-	1 Nom	T VIII	Thate o		Chick are to clear for Lin at pupil.  Not one.	No. They have not	Le quest complaints of headische	bi do 78111
115 J. B. Fudlov Primary No. 5 116 - 2 - 2 - No. 5		Mary Garyan	17 1868		Girls		4 267 1								EiBorn		Sept. on acupov and one unharpful.		Beth from icularlie	110
117 Lithnay No. 1 11 s. Ann, hun Princey No.	What one is at the lone is all a Western be of The on-		18 1817		B. A. G.	11, 1975	5 20 1	1 7	Vental it to employ .  We have note two souths windows	S	A None			VD	Though Transpol Theory is his d		r mbridt	Not present by	Hoth suffer	113
Mary Transport Painter No.	Alternatives Short many		18 1800		tiol-		1 211 1	3 S. Floor enther	We don'the windows	to no allo	4				Office on the military of the constant of		No.		The obstrom the flight fluor manifold of a start or blood from new blood or a	1
And the state of t	Palar t styl. Thong. a.	Carrie L. Word Mary R. B. achter	18 1250		Bets Lul	11 157 c 9 186 c	5 24 F	1 Both	ting Bett open the wind as	Connor No			Non	All	Inch Harn			No.	They do  Not be any knowledge  ,	100 100 100 100 100 100 100 100 100 100
200 (0.00)		Anno M. Soumerflan			Bos D	0.1.147		Very fort	Harono routh that applicates (Harono Vantania, applicates, pensi					1	Transcript d		Non	De not		76 78 80 02 123
1.4 So.	one and Balancele Storie	Lore Walls Lore Form	1   180		Boys	archil, Dece	1 20 1	1 Leaf	(the words w	Cannot	VII	A11		711	Los Los		Fig. 1: a Base to particle  (In the fearth flat to the disk or a particle or welling)		II the quer President	76 78 80 62 123 70 11 76 62 124
The Prome R. Linker of Pelinery So 9	More than ye Ave. A femal	ste J. W. De d.	1 [87]		n. a. o Le		1 22 1 1 20 1		to peth the pen window	Ye . Camer .					Live Live		Alex or and state	How not	Author from a	(iii
Pro-Resellation Palmany No. 10 1-7 Palmany No. 11	Huntle dook lide mon		1 1-17		Boys	10 11 12 150	1 20 1		Depend in the variables	Yes							Ge co and true		Not that Lamayons of	127
125 No. 12 129 - Phomos K. Linketter No. 13	West on talks Alami	Lita Thomps a	1 1863		Gub	de 25, 1 se c	1 20 1	3 both .	the strop is the window	Yes an	4				Attach of the A			they be a god	Both offer from headache	70 71 58 134
1 ac - Linery Primary No. 1	Frent and Lucy dd ersyst	M. I. Laures	10			uch 11-15co	a 158 3	s I An a ra toul,		Control is an	1 ,				Zirloddi i		A remark with the	Serion	0 0 0 0	1.10
131 Prlimity No. 27 132 2 No. 4	Vork and Tulip street	War who Graham L. W. Jeinrich	19		Boy - Gud	** 1 <sub>m</sub> 18%		Forth .	No to shall without up ning windows	Imposith		1	1	All	three constitutions and a contract of the second of the se		All or in Some de translation to	Ora ho care	"Titles to clear and many scholars { 1.00cm from heading he 2.00cm 0.00cm	121
131 A pains Printing No. 1	en quebranca Av. & Apple	Sal V. R. Marchell	19 1801	st	Gnls	21, 1570	10 -	the does not		V					reavance is both and real formula.	0	I think there is 1		Ethin not generally	68 67 665 10 131
14. Levaldin Primary No. 8	American & Colombia		19 1868		p a G turb		1 2 4	4. Frequently forf	It do not oblig dit opin the ametow	- Westernel		1		VII	to the transfer of the skills.				Both suiter trom nearlie ne	08 67 007 7 10 131
1 to Primary No. 5  137 Emerald Primary No. 8	Cumberhand a Hancock Street	talen k ti ipi	10 157 (		trials	$c=a_{i}185\tau$		toloul .	We take to their the windows	Yes	1	Non			I nt re		Dr. L. on tealers.	No.	None to our knowledge	To 68 85 40 136
US Notus Primary No. 9	Stoppelmana Av A Hone		19 .	45			110 -	to America extent so America extent		Sec. 11		V 100		N 11	21 6 [11]		(In sect on the items it is 60 h.) and on our total	Notice with	82 from headache, to goe bleed .	
139 Me, aces Pelmary No. 10 140 Pelmary No. 11	Su spickionia Av. a. Apple Licutori Av. A. Accomisco					10,1573	1 20 1	Northern L. Kont	We need supplied to quite boundary.  A stall distributed by the stall re-		2	X 1 1		A11	1 with	5		Moselia not	Both emplate	
141 Troublin Primary No. 12	American, ale Columbia.	Ve Schur Albu	1)		Tools	$\sigma = 1,1800$		E- th		Imp. 41	-	1				They er			Yes, from pay from class-	31 50 cm 21 141 112
142 Printer No. Li  11a Cumberland Printery No. 11	Su que e Av. & Luviene. Comberland A Hane . i. s		19 Fer 1		B. CO	9 H 187 c		North a		W to					1				No, they do not	60 68 70 80 143
11) " " No 1) 12) Adams Primary No. 16		Limita t. Boxan	10 180		Boys				1 big 10 1 1 10 1 1 W		i									195   195   195   195
14. 7. No.12	Adone sport at a Amil	M. L. Mir hell				1 187					4								The do not .	18
II 2th 8-ct. Your attention is roon 19, 14 and 15 in your cutslegate, when the parties of the pa	estfully requested to the order you may be a very large of the third with the section. You can be seen that the third the mass to occasion consider the actions as will enable them to								the state of the s	The 11 M A	5 7 - 1 5 5 2 0 5 1 V	l'afang t	x and contin-	1	Treate  the state of the state	from our gr No bo of me, and t to my tv purely are ill me of study	meaning even to a finite hot health process the shift of	he at 17th Sect. The sec en and in wet or dump we \$117th Sect. School \$318th Sect. In this in the other cooms are room are an improyem	ned is in the basement three feet freather it is injurious to both teacher in his engent—on cloudy days compare rooms well are love low and easily the kind well over twenty years and on the others.	on the level of the street, is and children. elled to light the gas. frown over. The desks and go. The desks in my



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Scholars or Teachers suffer om Headache. Lassitude WHAT IS THE AVERAGE TEMPERATURE OF ONE OR MORE OF YOUR



## PRIMARY SCHOOLS.—Continued.

DOLLON HOUSES

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	The state of the s		Boys Feb. 21, 1875		Open the said w	Lxopino : , ddwcath i Wi cus		V 11		Fr.		`		(1) (1)	
	Park Ave., ab Thompson St. A. H. Bruths		B. & G. March 5, 187 c							Lac -		`	No. 10 (1) 1 (1) 1 (1)		6 56
,	Mary and St. above Jefferson Mary I Shopherd. 20		Onls   Veb 26, 1875				N 10	2		~ ,		`			
Princery No. 1	Nutle, ab, Montgomery Ave. Lazete Merridge. 20			1 227 1 1 9	New military or penalty and		All arms	1 × 6					The thirt will be be the state of		
	Flighth and Thompson 8t Mary V Lower . 20 1873		R. & G. 9 2, 1875	5 288 5 a Both		the decidence of the	1 × 11							11 1/2	1
	Merche Street, ab dellers on Tazzle I Hatfield 20		Boys   Peb 26, 1875	1 200 1 9	Obligation quality windows	Limited	Non-Albin to					8 .			
· No. 7	Nutli, ale Monte one of Ave. Lazze C Thompson 20		Boys 23, 1875	1 218 1 Sometime Co.	Delegant as in the zon	t With control		N 6	4.1						1.55
· No b	Hereath at the Thompson Beste Smith 29 1872		B & G. 25 17, 1875	1 187 1 1 Both	Wrop is the wind a	\.	4 Sen					Cel	No. of the state of the state of		
	Green Lane, below Wood - Aranwich Lore - 21 + 1845		B & G. March H, 1875	12 am 6 p		r Are with their	1.01.4			t i			X 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
immi)	Shur's Lone, Marround M.C. Young 51 1857		R & G. Feb. 16, 1875	s I to Operation to I	We have now are open the wind	Weeklin	All tribes	le .							
Pagnists	Green Live Avenue . E. A. Create		B. A. G. March B. 1875	1 63 1 1 Seldom	Open the wind w	1	VI.								. 6.
413.	Was hings in St. Jul Je Hers on Tr. I bounders 21 18 a		B. & G. P. 10, 1875	S 196 4 1 Drs		the transfer	1					No. 1			
100.07	Central Street, above Even - Favore Me Dermond - 2, 1867		Bays 9 30, 1575	Sn 1 4 Sometimes fent	Obliged to open the wind or	sa falogo	VIII. V		, ,						
	Runna S Rasp 22   186		tails 9 4, 1875	1 221 1 4 Very fail	Visitation as to except to									1	
	Priza hura St., Germantown L. J. Wolfe 22 185		B.A.G. 9 00, 1875	1 .41 4 1 Foot	We spendle windows		111.1								
thous.	Conc Letter Bills County Cine Dobbie, B. Porters 22.1		B & G - Apoll 1, 1876	6 38 1 1 "											
	Locate to Land Mill Street Role of A Christian 22 187	1		1 21, 1 Abrevs but .		ha no mode	VII. > m					1			
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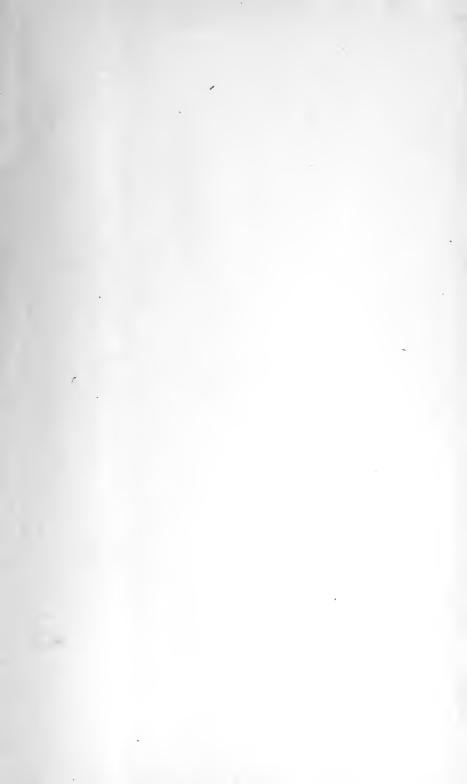
















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